



Price  
₹ 150

**BAZAAR  
HIGHLIGHTS**

New  
**iPad**



BlackBerry  
**Curve 9220**



Intel Core  
**i7 3770K**



HTC  
**One X**



A 99 Media  
Publication

# digit

YOUR TECHNOLOGY NAVIGATOR | [WWW.THINKDIGIT.COM](http://WWW.THINKDIGIT.COM) | VOL.12 ISSUE 05

**20+ LED  
MONITORS  
COMPARED**

**BUILD**

**YOUR OWN  
WEBSITE  
FOR ANY SCENARIO**

**LEARN**

**HOW THE IPAD  
SMART COVER WORKS**

**PLAY**

**RESIDENT EVIL  
RACCOON CITY  
BINARY DOMAIN**

**COMPARE**

**GPS DEVICES**

## THE ULTIMATE ACCESSORY GUIDE 2012

- ★ Top 100 accessories – for mobiles, tablets, PCs, automobiles, home and more
- ★ Myth-busting: Do you really need that accessory?
- ★ What are the hottest selling accessories?



9 74470 25140



**WORLD VIEW**

THE BEST TECH ARTICLES  
FROM AROUND THE GLOBE

**Tips & Tricks:** Photoshop CS6 beta | Pidgin and more | Agent 001: iPod Docks



ALIENWARE  
GAME VICTORIOUS



M17x

# GET INSIDE THE GAME



## EXPERIENCE TRIUMPH IN 3D WITH THE ALIENWARE™ M17x.

The action comes to life with the power of a 3rd generation Intel® Core™ i7 processor and enhanced graphics with 3D vision and THX surround sound. Together, they'll change the way you experience the game and equip you with the ability to always Game Victorious.

[alienware.co.in](http://alienware.co.in)

Alienware M17x systems are equipped with 3rd generation Intel® Core™ i7 processors.

RESIDENT EVIL  
Operation Raccoon City



1800 425 2058

Toll-Free Mon-Fri 9am-7pm  
Sat 9am-6pm  
(BSNL & MTNL subscribers only)

080-2510 8058

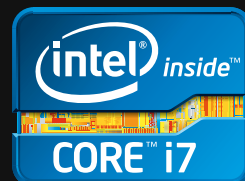
(Standard charges apply)



[www.facebook.com/AlienwareIndia](http://www.facebook.com/AlienwareIndia)

To purchase your Alienware laptop, please visit: Alienware Spaceship-Koramangala, Bangalore 080 40973989

Intel, the Intel Logo, Intel Inside, Intel Core, and Core Inside are trademarks of Intel Corporation in the U.S. and/or other countries. COPYRIGHT: © 2012 Dell Inc. All rights reserved.





# The only opinion that matters

If you're in the business of selling soap, toothpaste, beverages, clothes, etc., the game very rarely changes. Sure, tastes will, fashion will, and you need to stay ahead of the curve, but the game is always the same, the players are usually known, and you can see trends develop rather easily.

Take the famed Coke and Pepsi wars, for instance – bitter battles have been fought in advertising campaigns, and huge amounts of money have been spent, but the real game always seemed to favour the first mover, or the one with more pull in distribution channels. Majority market share has changed hands between the two in some countries, but it's been rare enough to allow both companies to make money.

Back in the late 90s and early 2000s, it was impossible to imagine that companies such as Yahoo!, Nokia and Microsoft would ever face any serious competition. There are other names you can add to that list – Ericsson, Motorola, RIM, etc. No one expected any other company to be able to beat any of these at their own game. And of course, no one ever did.

The problem with technology is that it's the game itself that changes. Sometimes so subtly, that people don't notice it until it's too late.

When the race to get personal computers into people's homes took off, people experimented with hardware that had specific software loaded. Want new software? Buy new hardware! It doesn't take a genius to understand why that trend was quickly reversed. For decades after that, it was the software that sold the hardware. The love for games sold GPUs, and it continues to do so. However, as hard as GPU manufacturers want to try and change that, the...err... game remains the same.

Take BlackBerry for instance. With its BES and BIS services, it was able to corner the enterprise market for phones and email on the go. Somewhere along the way the general public discovered BBM, and was hooked. Why pay for SMS when BBM is "free". That word is in quotes because obviously, you pay a little extra for a BlackBerry connection – not to mention a slight premium for the handsets as well. However, the game's changed again. Facebook and Twitter are the new way to get in touch with people, privately or publicly, and pretty much every smart-phone (and some dumb ones) can connect to

these services for you. Research in Motion has a tough task ahead of itself, because it needs to play the new games – the app game and the cross-platform game, for starters.

Even internet giant Google hasn't been without its failures – Orkut, Wave and Google+ just didn't catch the public's fancy the way Facebook, Twitter and YouTube did. It bought YouTube, of course, but still seems to be a little behind on the social game.

It's not like Facebook isn't fighting either – as we covered in a cover story previously, it has its own set of challenges ahead of it.

The technology game has all boiled down to one thing really – listen to your customers. You're the ones buying the products, and you're the ones who don't really have anything to gain or lose, and are passionate about the products you purchase. Yours is the only opinion that matters.

Every year we conduct a reader survey, and ask you to point out our flaws, and let us know what you'd like to see less or more of in the magazine. This year we've been lucky enough to also get some partners on board to provide a few lucky people with exciting prizes for taking a little time off to help improve this magazine we all love. If you turn the page you'll find details of the Digit Reader Survey 2012 ([www.thinkdigit.com/drs](http://www.thinkdigit.com/drs)). Please ensure that you take a little time out to give us your feedback, we would really love to serve you better.

Although Digit has been the largest selling Indian technology publication for over a decade, we also know that it's only you that keeps us at that position. In fact, one of the requirements of working here at Digit is humility – we're all just readers who applied on a whim, and then stuck on because we loved our jobs, the magazine and technology in general.

We're looking for a fresh batch of people to train and release into the technology world, so if you're feeling as whimsical as we once were, send your CV to me, and you could be a part of this crazy ride through the technology world called Digit.



**Robert Sovereign-Smith**  
Executive Editor  
[editor@thinkdigit.com](mailto:editor@thinkdigit.com)

**"...it was the software that sold the hardware. The love for games sold GPUs, and it continues to do so"**

A stylized, handwritten signature in black ink, which appears to read 'Robert Sovereign-Smith'.

Liked or hated this column?  
Write in to [editor@thinkdigit.com](mailto:editor@thinkdigit.com) and let me know your thoughts.





# What do you think of us?



Presents



Not only do you get to help improve your favourite magazine, you can also win exciting prizes!

We firmly believe in innovation and change, and in order to do so, we need your help. Digit is conducting our annual reader survey, and your feedback is worth its weight in gold to us. Not only will it help us improve India's most read technology magazine, it will also help us serve you better by identifying your needs, and helping you navigate the technology maze more efficiently.

Each one of you gets to vote for sections you love, those you hate, identify what we don't do enough of, and tell us what you'd like to see more of, etc. We would like to thank all of you in advance for spending your valuable time helping us improve.

We will also conduct a lucky draw, and a select few will get some really amazing prizes from some truly amazing technology brands. Our thanks to all of the sponsors for the exciting range of gifts you see on the opposite page.

To take part in the Digit Reader Survey, head over to:  
[www.thinkdigit.com/drs](http://www.thinkdigit.com/drs)

## Reader Survey Lucky Draw Terms and Conditions

• Only participants who complete the full survey can qualify for the Lucky Draw • All participants should complete the survey on or before June 30, 2012 in order to qualify for the lucky draw • Only Indian nationals, residing in India, are eligible for the lucky draw • The lucky draw will be held electronically by a random number generator on July 2, 2012, without any human involvement • In case of disputes, the Executive Editor's decision will be final • Employees, or relatives of employees, of either 9.9 Media or any of the sponsor companies are not eligible for the lucky draw • Winners will be announced in the August issue of Digit, and online on thinkdigit.com • To claim their Prizes, all winners will need to provide a valid PAN card copy and one of these address verification documents - Copy of Driving License, Telephone/ Mobile Bill, Electric Bill, Ration Card, Passport. If the winner is a minor, the guardian's / parent's PAN information will be necessary • Although "Gift Tax" in India has been abolished, winners will have to pay tax if they have received gifts in excess of ₹50,000 in a given financial year. This is accounted for under the "income from other sources" in your I-T returns. Digit has ensured that all gifts are valued below ₹50,000 to help winners avoid this. However, if a winner has also received gifts from other sources, and the total for the year exceeds ₹50,000, the winner will have to bear the tax liability • All taxes applicable on the Prizes thereto shall be borne by the winners and shall be collected before the dispatch of the Prizes.



Presenting Sponsor



want it. get it.



Nikon Coolpix s6300



Samsung Galaxy Note



Map My India  
Road Pilot



Plantronics Voyager  
Pro Plus



Apple iPad 2



Sony PS3

Premium Sponsor



ASUS DSL-N55U



ASUS O!Play Mini Plus  
media player



ASUS O!Play TV  
Pro Smart TV Set  
Top Box



ASUS  
RT-N66U

Loads of  
exciting  
gifts to be  
won!

Premium Sponsor



Quick Fire Rapid  
Gaming keyboard



Sentinel Zero G  
Gaming Mouse



Power Fort  
2700 mAh



Infinite Evo  
notebook Cooler

Associate Sponsor



ZBOX-  
ID31DVD-E

Premium Sponsor



Caviar  
Black  
1TB



Scorpio  
Blue 500  
GB



Caviar  
Green  
2TB



Caviar  
Blue 1TB

Associate Sponsor



HyperX RAM modules



Many more  
prizes also up for  
grabs, including  
subscriptions, Pen  
Drives, T-Shirts and  
more....

digit

India's No.1  
Technology Magazine





Managing Director **Dr Pramath Raj Sinha**  
Printer and Publisher **Kanak Ghosh**  
Publishing Director **Asheesh Gupta**

#### Editorial

Executive Editor **Robert Sovereign-Smith**  
Copy Editor **Infancia Cardozo**  
Multimedia Co-ordinator **Jait Dixit**

#### Test Centre

Assistant Test Centre Manager **Jayesh Shinde**  
Senior Reviewer **Nimish Sawant**  
Reviewers **Vishal Mathur, Sameer Mitha**  
Trainee Reviewers **Anirudh Regidi**  
Product Co-ordinator **Shweta Mali**  
Assistant **Vikas Patil**

#### devworx & Custom Publishing

Asst. Editor **Nash David**

#### Thinkdigit.com

Online Editor **Soham Raninga**  
Writers **Abhinav Lal, Kul Bhushan**

#### Design

Sr. Creative Director **Jayan K Narayanan**  
Art Director **Anil VK**  
Associate Art Director **Atul Deshmukh**  
Sr. Visualiser **Manav Sachdev**  
Visualisers **Prasanth TR, Anil T & Shokeen Saifi**  
Chief Designer **NV Baiju**  
Sr. Designer **Sristi Maurya**  
Designers **Suneesh K, Shigil N, Charu Dwivedi**  
**Raj Verma, Prince Antony, Peterson**  
**Midhun Mohan & Prameesh Purushothaman C**  
Chief Photographer **Subhojit Paul**  
Sr Photographer **Jiten Gandhi**

#### Contributors

Writers **Siddharth Parwatay, Hanu Prateek, Kshitij Sobti, Ravi Sinha, Vaibhav Kaushal, Nishith Rastogi, Radhika Dimri, Rounak Jain, Subodh Kolhe**

#### Production and Logistics

Sr GM - Operations **Shivshankar Hiremath**  
Manager Operations **Rakesh Upadhyay**  
Asst Production Manager **Vilas Mhatre**  
Asst Mgr **Vijay Menon**  
Production Assistant **Brahmanand Nikalje**  
Executives **M P Singh, Mohd. Nadeem Ansari**  
**Nilesh Shiravadekar**

#### Brand

Product Mgr **Navneet Miglani**  
Mgr - Online **Shauvik Kumar**  
Mgr - Product Marketing **Chandan Sisodia**  
Co-ordinator / Scheduling **Kishan Singh**

#### Circulation Sales

National Co-ordinator **Samir Mehta**  
Regional Mgrs **Jayanta Bhattacharyya, Norbert Joseph**  
Manager Circulation **Dharmendra Singh**  
Executive **Vijay Mhatre**

#### Reader Services

Lead Associate **Sourabha**  
Executives **Itishree, Pinky, Sudhir, Sufiyan**  
**+91-22-678 99 678 / help@thinkdigit.com**

#### Community Advisory Council

**Ejaz Ashraf, Mayur Gaikwad, Bhuvneshwar Gupta, Prashant Joshi, Romin Joshi, Natraj Kadur, Rohan Mathew, Amitabh Mishra, Abhineet Mittal, Dev Mukerjee, Anuvrat Parashar, Dipankar Saha, Dilip Sanghvi, Suva Sarkar, Arun Sriraman**  
Cover design **Shigil N**

#### TO ADVERTISE

Email: **sales@thinkdigit.com**

National Manager:  
**Lalit Arun, Mobile: +91-95822 62959**

Manager (Delhi):  
**Debleena Majumdar, Mobile: +91-98101 19492**

Manager (Bangalore):  
**Ram Sarangi, Mobile: +91-98864 06961**

Manager (West):  
**Suvarna Shringarpure, Mobile: +91-93249 28247**

Manager (Kolkata):  
**Jayanta Bhattacharyya, Mobile: +91-93318 29284**

#### ADVERTISING INDEX

Brand	Page No
APC.....	11
Apical.....	37
Asia Power.....	120
Asus .....	13, 15, 67, 73, 99, 101
BC Kaspersky .....	21
Fenda .....	119
Gigabyte.....	21
India AV .....	117
iBall .....	7, 47
IBC Toshiba .....	Cover
IFC Dell .....	Cover
Lipap .....	33
PNY.....	23
Rashi Peripherals .....	35
R P Infosystems Ltd .....	41
Safenet.....	29
SmartLink .....	25, 69
Symantec .....	17
Tom Tom .....	57, 59, 61
Topgun .....	19
Texonic.....	105
TP Link .....	63
Trend Micro .....	31
Top Gun.....	37
Wiley .....	93, 95, 97
Xerox.....	5

Published, Printed and Owned by Nine Dot Nine Interactive Pvt. Ltd. Published and printed on their behalf by Kanak Ghosh. Published at Bunglow No. 725 Sector - 1, Shirvane, Nerul, Navi Mumbai. 400706. Printed at Print House (India) Pvt. Ltd. R-847, TTC Industrial Area, MIDC, Rable, Navi Mumbai 400701. Editor: **Anuradha Das Mathur**

#### Disclaimer

For every Digit contest, there will be only one winner, unless specified otherwise.  
In the event of a dispute, the Editor's decision shall be final.

#### PRODUCTS REVIEWED THIS MONTH

##### Bazaar

Airtel Digital TV HD Recorder  
Apple iPad (iPad 3)  
ASUS GTX 680  
ASUS HD 7850  
BlackBerry 9220  
Canon Powershot A3400IS  
Canon Powershot SX240HS  
Cooler Master Power Fort 5600mAh  
Dell XPS 13  
HCL Me U1 tablet  
HTC One X  
HTC Rhyme  
HTC Sensation XL  
iBerry tablet (ICS)  
Intel Core i7-3770K  
Jabra Wave Red  
LG 42LW6500 Cinema 3D TV  
Nokia 701  
Plantronics Marque M155 headset  
Samsung Series 5 Ultrabook  
Sennheiser HD439  
ZOTAC ZBOX Nano ID61  
Zync tablet (ICS)

##### LED Monitors Test

Acer GR235H  
Acer S221HQL  
AOC e2352Phz  
AOC e2795Vh  
Asus PA238Q  
Asus MA238H  
Asus VK278Q  
Asus VS247H  
Asus VG278  
BenQ GL950A  
BenQ BL902M  
BenQ GL2250HM  
BenQ G2222HDAL  
BenQ RL2450HM  
BenQ GL2450HM  
BenQ RL2240H  
BenQ EW2430V  
BenQ GL2750HM  
BenQ XL2420T  
BenQ EW2730V  
Dell U2412M  
Dell U2711  
LG E2290  
LG D2342  
Philips 273P3LPH  
Samsung S23A350H (LED 58")  
Samsung LS27B550 (LED 27")  
Tech-Com SSD-LED-1805

##### GPS Devices Test

Garmin nuvi 2565LM  
TomTom Via 125 & 120  
Satguide 4.3 & 5.0 Navi  
MapMyIndia Roadpilot & RoadPilot II  
MapMyIndia VX140  
MapMyIndia VX240  
MapMyIndia ZX250  
MapMyIndia CarPad



# SMALL WONDERS



Additional 1 Year **Free\*** Warranty on Phaser 3010 & Work Centre 3045NI

## Phaser 3010

- Small Size Printer
- Speed 20 ppm
- 64 MB RAM
- EA toner for excellent print quality

## Work Centre 3045NI

- Print/Copy/Scan\*/Fax\*
- Built in Wi-Fi connectivity
- Speed 24 PPM
- Speedy first page out time as fast as 8 seconds
- 128 MB RAM

Call us at 18001801225 or 39012000# & book your printer now



[digital.solutions@xerox.com](mailto:digital.solutions@xerox.com)



[www.xerox.com/india](http://www.xerox.com/india)

\*Condition apply

# Please prefix the local city code when calling from a mobile number

## Contact us



### Tell us what you feel about Digit

If you have an opinion about anything published in Digit, or about technology in general, write to [editor@thinkdigit.com](mailto:editor@thinkdigit.com) or call at **+91-22-678 99 700**. To interact with the authors of specific articles, please write to the email address specified under the author's name



### Software on the DVDs

To submit and suggest software or any other type of content, to be included in the Digit DVDs, write to [dvd@thinkdigit.com](mailto:dvd@thinkdigit.com) or call **+91-22-678 99 707**



### Q&A

If you're having trouble with your PC or a gadget, our experts can help solve your problems. Just write in to [sos@thinkdigit.com](mailto:sos@thinkdigit.com). Remember to include full system configurations in your email.



### Agent001

Our very own secret agent will give you the lowdown on what to buy, from where and for how much. Send in all your buying advice or questions to the coolest agent ever. Write to [agent001@thinkdigit.com](mailto:agent001@thinkdigit.com)



### Help!

For copy-related issues, delivery status or any other complaints regarding our service, write to [help@thinkdigit.com](mailto:help@thinkdigit.com) or call **+91-22-678 99 678**



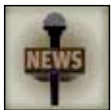
### Subscribe

Want to subscribe to India's #1 Technology Magazine? You should, because we have exciting offers for everyone, and you save money in the bargain. SMS: **<DIGIT SUB> to 92200 92200** or visit [www.thinkdigit.com/subscribe](http://www.thinkdigit.com/subscribe)



### Product testing

Want your product reviewed by Digit? Contact our Test Center at [testcenter@thinkdigit.com](mailto:testcenter@thinkdigit.com) or call **+91-22-678 99 708**



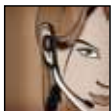
### News and new product launches

To announce new product launches and press releases, email us at [pressrelease@thinkdigit.com](mailto:pressrelease@thinkdigit.com)



### Endorsements / reprints

Interested in ordering article reprints or in using our logos? Get the requisite permissions by contacting us at [reprint@thinkdigit.com](mailto:reprint@thinkdigit.com)



### Business enquiries

Think we can help you grow your business, or maybe you can help us grow ours? Get in touch with us at [business@thinkdigit.com](mailto:business@thinkdigit.com)



### Careers

Want to work for Digit? Send us your resume at [careers@thinkdigit.com](mailto:careers@thinkdigit.com)



### Sponsorship

Want Digit to sponsor your tech event? Send your proposal to [sponsor@thinkdigit.com](mailto:sponsor@thinkdigit.com)

## Interact with Team Digit



[thinkdigit.com/twitter](http://thinkdigit.com/twitter)



[thinkdigit.com/youtube](http://thinkdigit.com/youtube)



[thinkdigit.com/facebook](http://thinkdigit.com/facebook)



[thinkdigit.com/forum](http://thinkdigit.com/forum)

## Digit Facebook Pages

### Join the group that suits your need!



<http://www.facebook.com/thinkdigit>

Your favourite

magazine on your favourite social network. Interact with thousands of Digit readers and have some geeky fun!



<http://www.facebook.com/techkranti>

Let's wake ourselves up and gather the tools

of tech to change the future of our great nation. Join The Revolution!



<http://www.facebook.com/IThinkGadgets>

Community of People who love mobiles, laptops, cameras & other gadgets



<http://www.facebook.com/consumermate>

Expert buying advice and some awesome offers



<http://www.facebook.com/devworxin>

Community of software programmers who enjoy writing code and want to grow their career in software development



Participate in Digit Survey  
Win exciting Asus products  
Flip to **Page 2**





ba11

Your eyeball view.  
Our technology new.

# Waves of Music

Play  
Non Stop  
music  
upto 6hrs\*



## Music Boat *portable speaker*

Portable & Stylish Design  
with multiple Inputs

Play music from

1. PC/ Laptop/ Tablet/ MP3/ Video Players (Stereo Input)
2. Pen Drive (USB Input) 3. SD / MMC Card (SD Input)

FM Radio & Alarm Clock  
with high quality speaker



Xpresso



Opus



Melody bar



USB Drum

\* On half volume

[www.iBall.co.in](http://www.iBall.co.in) | Over 25 million iBall products sold

Best IT World (India) Pvt. Ltd.: Email: [sales@iball.co.in](mailto:sales@iball.co.in) Mumbai - 022- 6774 5100 / 3081 5100 / 9820723393, Ahmedabad - 079-2743 6373, Bangalore - 080-4124 3646, Bhubaneswar - 0674- 329 7372, Cochin - 0484- 220 7141, Chennai - 044- 4216 8561, Dehradun - 0135- 324 4481, Guwahati - 80070 35766, Goa - 09545311812, Hubli - 0836- 227801, Haryana / Himachal - 87500 76813, Indore - 0731- 404 2509, Jaipur - 0141- 313 0340, Kolkata - 8017518545, New Delhi - 8860080580, Lucknow - 0522- 400 5840, Ludhiana - 09316065255, Nagpur - 0712-325 3811, Nashik - 095526 04485, Pune - 093723 37753, Patna - 0612- 326 0947, Raipur - 0771- 329 3674, Ranchi - 0651- 324 4199, Secunderabad - 040- 2789 4847.

MAY 2012

VOLUME 12 | ISSUE 05

# Contents

## QUICK NAVIGATOR

010 ENTER

018 CONNECTIONS

026 DIGITAL LIFE  
Droolmaal  
Crowdsourcing  
5 Ways to Use GPS

046 SCI TECH  
From the Labs  
How Smart Cover Works

058 TRIED & TESTED  
GPS Devices  
LED Monitors  
Bazaar

085 TOOLBOX  
Tips & Tricks  
Q&A  
DIY

102 TECH@WORK

106 STREET SMART  
Agent 001  
Price Watch  
Killer Rigs

110 ESC



038 Top 100 accessories  
For your mobile, tablet, laptop,  
home, car and more...

034  
Myth busting:  
Do you really need that accessory

TRIED  
&  
TESTED



075  
NEW IPAD

One tablet to rule them all



077  
CANON POWERSHOT  
SX240HS

Great travel zoom compact but priced  
slightly higher



079  
SENNHEISER  
HD 439

Surprisingly good and  
doesn't cost a bomb





## 026 Droolmaal

Seriously expensive gadgets you simply can't afford

## 049 World View

Who owns you online?

## 053 devworx

MoSync, the cross-platform app development framework for mobiles



## SKOAR!

### 112 Binary Domain

Terminator on steroids?



### 114 Resident Evil: Raccoon City

The downfall of an awesome franchise



### 081 DELL XPS 13

Dell's 1<sup>st</sup> ultrabook is a big hit!



### 082 HTC SENSATION XL

Competent phone let down by the price tag



# ON THE DVDs

## Video Handling

VLMC  
Virtual Dub  
Sony Vega Pro 11  
Blender  
Total Video Converter  
AVS Video Converter  
Meteorite  
DivFix  
Digital Video Repair  
Hypercube Time  
Stretcher

## Full Games

BOSS Wars  
Gang Garrison 2 v2.4.2  
Jump N Bump  
Zigfrak  
Secret Maryo Chronicles  
Chromium  
DvDrum 2  
Wing Commander Saga: The  
Darkest Dawn  
PlasmaPig  
Stratus  
A Series of Tubes

## Game Trailers

Max Payne 3  
Collection  
Halo 4  
The Elder Scrolls V: Skyrim  
Risen 2: Dark Waters  
Assassin's Creed III Conner's  
Weapons

## Game Demos

Angry Birds Space  
Osmos  
Age of Decadence  
Planet Buster



**Buzz**

Apple's iPad to return in a new avatar. Check out the latest entrants in the education-centric tablet space

**LG Cookie Smart**

LG may launch a low-end dual-SIM phone soon called the LG Cookie Smart. It has a proprietary OS <http://dgit.in/InpPS4>

✉ I'm a die hard Digit reader and feel proud to be a Digitian! I've been reading this magazine since the past six months and now I feel like reading 2 Digits each month! In the previous issue, I read about "Recovering data"! It was so cool I was simply amazed. After reading the article about using USB drive as key I was simply moved. My friends call me a tech wizard but I'm still afraid because I didn't know about Recuva software. Thank you very much for giving these kinds of software. Expecting a lot in the next edition.

I would like to suggest the following:

- Please provide a Fast Track issue to creating Android apps since Android apps are growing!
- Please give more up-to-date news about Android phones. It could matter to budding Android users a lot.

*Koushik B*

✉ Thanks a lot for the feedback. Most of our readers are tech gurus in their friend circles and we are glad that there is a new addition. We have provided a Fast Track to Android in March 2011 as well as an Android SDK in May 2011. You can purchase those Fast Tracks from [thinkdigit.com/store](http://thinkdigit.com/store)

*Nimish*

✉ Well to start with thanks for providing years of sharing knowledge and ideas. I'm not a subscriber though, but always buy your magazine every time I'm near the station. Your stories have always been an inspiration. Just keep on providing tons of information and tricks. Thank you a lot :)

*Jowell Mendes*

✉ We are glad that you like our articles. Keep reading, and share Digit with more of your friends.

*Jayesh*

✉ I'm a huge fan of your mag. Keep up the good work. My Class 10 board exams just got over and I'm very happy. The very same day, I rushed to the nearest store and bought

## Feedback for the April 2012 issue of Digit



last month's copy (Mom told me not to give way to any 'distractions' during exams). I really liked your column and for once, you got me thinking if really all we surf and post is monitored. I guess we'll never know about that. Last month's Fast Track to Careers in Gaming was a great help to me as I've been planning on taking it up as a career in the future since I read Jayesh bhaiya's article in Dec's SKOAR!

Well that's all, it's just like Digit has become a part of my life and has helped me in all sorts of ways (I'm my relatives' tech consultant and it even helps with girls sometimes :)

*Shubham Bhatia*

✉ I'm a first time reader of Digit and I've already vowed to buy it every month. I like the way the segments are divided. In the April issue, I liked the comparison of several motherboards and anti-virus suites. The Street Smart section was very refreshing – it gives a guide to buying to tech enthusiasts like us. The software DVDs were fantastic. They were dual-layered, but started in few seconds only! I like the trailers of the coming movies, great HD. I had expected a bit more in the Recover section like how to extract data from damaged HDD but it was compensated by other data. I want to request some things in future editions and some things about the current issue.

- The prices of AV suites that were given were more than what I found in some online shopping stores. I think you have given different scheme prices like some with multi-user price and some with multi-year price.
  - I like you to give details of the UNIX word editor EMACS, like how to use it and how to view encoded messages in this editor. If you've already published it before then please give the links. I also want to know more about minGW and code:Blocks
- Great issue guys.:-)

*Saikat Saba*



**TURN TO PAGE 2**

✉ Hmm using the tech gyaan to impress girls, how the world has changed :) We are glad that you loved the Gaming Careers FT. As for your data being used by big international websites, we guess that is the price we have to pay for free services and staying connected to our friends and family. All the best with your 10th results.

*Jayesh*





Saves up to  
₹2000\*  
per year on your  
electricity bill.

# Saves power. Saves data. And now Saves money.

Get the most energy-efficient backup with  
India's first intelligent Green UPS.

Your IT assets have never been more important, and yet, they have never been at higher risk for damage.

So like most people, you need to protect your assets. But like most people, you'd also like to protect the environment. With our new energy conscious Green UPS you can do both. Energy efficient by design, our new Back-UPS Pro protects the power going into your IT equipment, at a cost that is quickly offset by energy savings. How? Not only does the new Back-UPS Pro use power wisely, it also boasts a master/controlled outlets feature, which automatically powers down idle devices to conserve energy.

- Upto 3 hours backup and supports upto 5 desktops (600W for 1 KVA and 865W for 1.5 KVA)
- PowerChute® 3.0 Software to monitor power management, diagnostics and carbon footprint
- LCD screen to display realtime status of more than 20 different battery backup conditions
- 2 years on-site replacement warranty, with batteries
- Available in 1 KVA and 1.5 KVA



Order your very own Back-UPS Pro today  
and win an iPhone 4

To book your order

**Visit :** [www.sereply.com](http://www.sereply.com) or

**Call :** 1800-4254-272

or write to [promotions.india@apcc.com](mailto:promotions.india@apcc.com)

**Keycode :** 44447Y

# APC®

by Schneider Electric



## The 6.5mm phone

Oppo released a sneak-peek of, possibly, the world's slimmest phone  
<http://dgit.in/JntGzu>

## Lenovo recalls M90z and M70z

Lenovo has recalled around 28,000 ThinkCentre all-in-ones belonging to the M90z and M70z models to check a potential fire hazard  
<http://dgit.in/Innd3b>

### LETTER OF THE MONTH

✉ Hi Team Digit, I'm writing to you approx a year later. I feel lucky to be a Digit reader as I can see in the magazine how much hard work you're putting in to progress your magazine. I'm really very happy with your signs of development. I have some value points and requirements from you.

- From past special issues, you're not providing the Fast Tracks of whole year (i.e., 2010 & 2011) as you provided in Jan 2010 issue, my 1st issue and at that time I was very happy to see it. It's very difficult to manage the hard copy of books and because I want to keep it forever I don't want to lose it at any cost.
- Please provide Skyrim's high resolution Texture Pack & Creation Kit. I'm eager to use it, but unable to download it from the net because I don't have such high speed connection.
- I have send many emails but there's no reply. Please try to give your feedback as soon as possible.
- Are you providing Win8 Consumer Preview next month? If not, please provide in next month's DVD. I and my friends really want to try it.

At last I will say, I want you to be on top. Think different and be different then

a time will come when you'll be on No. 1 in the world and the later generations will remember you. Keep up the good work and best of luck for the future.

*Surya Prakash Singh*

📧 We will provide Fast Tracks for 2010 and 2011 in June issue. Keep an eye out for that.

We will try and include Skyrim's creation kit in next month's issue. We haven't been able to find previous emails from you, so it's quite possible our spam filter has been wrongly flagging your mails. We have added you to the white list, so you shouldn't have any trouble getting in touch with us in the future. Just remember, [sos@thinkdigit.com](mailto:sos@thinkdigit.com) for troubleshooting, [agent001@thinkdigit.com](mailto:agent001@thinkdigit.com) for buying advice, [help@thinkdigit.com](mailto:help@thinkdigit.com) for complaints about damaged or missing items and [editor@thinkdigit.com](mailto:editor@thinkdigit.com) for feedback. Microsoft has not given us permission to distribute the Win 8 CP. Everyone who wants it, please write in as Digit readers and complain to them. Also, remember to write in to us again and provide us with your full address to claim your free gift.

*Robert*



📧 Regarding the prices of the security suites, we have given prices based on the home user edition. Maybe you have checked some other editions. Also we include the MRP given to us by the product companies. On some online shopping web sites you may get discounts, just like you would at your local electronics market.

We will definitely discuss the topics regarding Linux that you have mentioned in our Edit meets.

*Robert*

✉ I need to know what are the starting prices of 3D monitors. And what are the criteria for them? Can you explain in detail or review it in your magazine or Fast Track.

*John Pachau*

📧 Your question could not have come at a more apt time. We have reviewed around four 3D monitors in our LED monitor comparison test this month. The prices for 3D monitors start from around 17k, but the better 3D monitors, which allows 3D gaming, start at around ₹22k. There are two types of 3D displays: one which uses passive 3D glasses and the other one is active-shutter 3D glasses. The minimum requirement for a monitor to handle 3D is to have a refresh rate of 120Hz.

*Nimish*



**Participate in Digit Survey**  
 Win exciting Western Digital products Flip to **Page 2**

✉ This one comes from a die hard technology enthusiast. Actually I have nothing to complain about except a few things I'd like you to do:

- Please go back to the simple old web site back in 2005 era – They were beautiful.
- Can you include an Apps section??? That will be great.
- Please include the terms we need to find in the "Word Jumble" for its too big a magazine to find words.
- As a student of Animation, please (if possible) do a Fast Track on Animation and its future.

There are some things that I really like about the magazine and its contents

- The cover page – As a Photoshop guy I know how much hard work goes into making one. Cheers!!
- Your (Editor's) pick on the things going on around us
- The page on Drool Maal – Superb!
- The cover story on data last month was fabulous
- How can I forget Tips and Tricks?
- Killer Rigs – Helped a lot when I bought my PC. I was also helped by a lot of people on the Thinkdigit Forum (Thanks guys)
- World View

My batchmates in college ask me for help on computers, but they don't know my secret. Even my cousin who lives in Canada asks which gadgets good. All because of Digit.

*Tarun Dham*

📧 Thank you for taking the time to offer us your feedback. We already have a dedicated sections for Apps called App Watch in the magazine, and we also review apps regularly on our site as well. We will try and make the apps section larger in the magazine. The word Jumble isn't supposed to be easy, where would be the fun in that.

We have already published a Fast Track to 3Ds max in April 2011, and it will take some time before we print a refresher. We will certainly discuss the Animation Fast Track idea, so keep your eyes peeled. Also, why keep Digit a secret? Share Digit with your friends, and let them also learn something. They will appreciate you more as a friend if you do.

*Robert*



ASUS recommends Windows® 7.

**ASUS**  
Inspiring Innovation • Persistent Perfection



**Specification:**

CPU	: Intel® Core™ i7-2600K Processor
OS	: Genuine Windows® 7 Home Premium
Chipset	: Intel® Z68
Memory	: 8GB DDR3
Graphics	: GTX 560 Ti 1GB GDDR5
HDD Storage	: 1TB
SSD Storage	: 64GB
Optical Drive	: Blu-ray writer

# ROG TYTAN GAMING DESKTOP BORN WITH SUPREMACY

Inspired by ballistic missile submarines, each element is created exactly according to its purpose - war domination



CM6731 (i3)

**Specification:**

CPU	: Intel® Core™ i3-2120 Processor
OS	: Genuine Windows® 7 Home Basic
Chipset	: Intel® H61
Memory	: 2GB DDR3
Graphics	: Integrated Intel® HD Graphics
HDD Storage	: 500GB
Optical Drive	: 24X SuperMulti DVD burner



CM6830 (i5)

**Specification:**

CPU	: Intel® Core™ i5-2320 Processor
OS	: Genuine Windows® 7 Home Basic
Chipset	: Intel® H61
Memory	: 4GB DDR3
Graphics	: Integrated Intel® HD Graphics
HDD Storage	: 500GB
Optical Drive	: 24X SuperMulti DVD burner



CG8250 (i7)

**Specification:**

CPU	: Intel® Core™ i7-2600 Processor
OS	: Genuine Windows® 7 Home Premium
Chipset	: Intel® H67
Memory	: 8GB DDR3
Graphics	: GT 545 3GB DDR3
HDD Storage	: 1TB
Optical Drive	: Blu-ray writer



To know about ASUS service, call Customer Care Center  
**Toll Free 1800-2090-365**  
Monday to Saturday (9 am to 6 pm)

\*Conditions Apply.  
All Specifications are subject to change without prior notice.

Your PC Simplified, Windows® 7.  
Designed for faster and more reliable performance,  
so your PC just works the way you want it to

Your PC, simplified.



**ASUS - No.1 in Quality and Services** - The Wall Street Journal Asia

www.asus.in | Toll Free No. 1800-2090-365 | For Feedback Email reachus@asus.com or Log on to www.asusservice.com



### Smartphones with HD displays

We have five smartphones that can give the iPhone 4's Retina Display a run for its money  
<http://bit.ly/IQPDG8>



### Apps for Indian users

A look at 10 apps that can optimize your smartphone for use in India  
<http://bit.ly/IY1Bu7>

## Android 4.0 budget tablet from Micromax

**M**icromax has launched the Funbook tablet, and it's one of the few Android 4.0 Ice Cream Sandwich-based slates in India. Priced at ₹6,499, the Funbook features a 7-inch display with 800x480 pixel resolution, a 1.2GHz Cortex A8 processor with a Mali GPU, and 512MB RAM.



Micromax Funbook

The Funbook comes with 4GB onboard memory, expandable via a microSD card, a 2,800 mAh battery, USB 3G dongle support and a 0.3 megapixel front-facing camera. The Funbook comes with access to 600 movies in nine languages, over 6,000 songs and 4,000 videos and a Live TV app. Micromax also offers Tata's Photon+ EV-DO data card with 1 GB of additional download for two months.

The battery is rumoured to last not more than 3-4 hours with continuous usage. **[i]**

## Galaxy SIII to come with Exynos 4 quad-core processor

**S**amsung has said that its next generation Galaxy Smartphone will house a quad-Core processor. The new processor called Exynos 4 Quad, is a 32nm processor. The next generation Samsung Galaxy smartphone, so far known as the Samsung Galaxy SIII is expected to be unveiled next month. The Exynos 4 Quad will not only be used in smartphones but in Samsung's tablets as well. The chip will be clocked at 1.4GHz.

The fact that the processor in the Samsung Galaxy S III is a

32nm chip is a big deal breaker considering that the third generation iPad and the iPhone 4 and 4S use 45nm chipsets.

In a statement released, Samsung said, "Already in production, the Exynos 4 Quad is scheduled to be adopted first into Samsung's next Galaxy smartphone that will officially be announced in May. The Exynos 4 Quad processor is a crucial element in providing our customers with a PC-like experience on mobile devices. Samsung's next Galaxy device, which will be officially announced soon,

offers uncompromised performance and ground breaking multi-tasking features."

The press release also says, "In addition, the new processor was architected to drive up to 1366 x 768 (WXGA) display and incorporates a full HD 30 frame per second video hardware codec engine for high resolution 1080p video recording and play-back, an embedded image signal processor interface for high-quality camera functionality and an HDMI 1.4 interface for sharp and crisp multimedia content transmission." **[i]**

## HCL's ICS tab: all study and no Play (Store)

**S**imilar to Micromax's Funbook which bundles educational content, comes a tablet from HCL costing about a grand and a half more. The company has also launched an Android 4.0 Ice Cream Sandwich-based tablet called HCL ME Tab U1, priced at ₹7,999.

The tablet will also be launched with two educational variants: MyEdu Tab K12 (₹11,499) and MyEdu Tab HE (₹9,999). None of the three HCL tablets feature access to the Google Play Store. Instead, they get the HCL SlideMe Appstore.

All three tablets bear identical specifications, with the only difference being that the two education variants



Nargis Faqri at the HCL ME Tab launch

– HCL MyEdu Tab K12 and HCL MyEdu Tab HE – come with pre-installed educational content meant for students of high-school (including NCERT books) and college, respectively.

They'll also feature access to a HCL cloud storage service called HCL Touch. Specifications include a

7-inch (800x480) capacitive display, 1GHz ARM Cortex A8 processor, 512MB RAM, 4GB built-in storage expandable via microSD card (maximum card size is 32 GB), 0.3MP front-facing camera, no rear camera, Wi-Fi connectivity, 3G connectivity via USB dongle, mini USB, and a 3,600 mAh battery. It also has a 1-year warranty. **[i]**



**Participate in Digit Survey**  
 Win exciting Asus products  
 Flip to **Page 2**



New Tech

PCIe  
Ready 3.0

# P8Z77 Series Motherboards

## Your Next Build



Blazing Performance Boost

TPU with  
SMART DIGI+

Superb Connectivity

Customizable Cooling



### Go beyond the Upgrade

Get ready to shift into a new age of smarter and more powerful computing. ASUS and Intel® Ivy Bridge bring you a gigantic leap in technology, with a host of exclusive add-ons for improved performance tuning, customizable cooling controls and superb connectivity.

ASUS has deployed its **Dual Intelligent Processors 3 with SMART DIGI+ Power Control**, giving you total overclocking and tuning of the CPU, iGPU and memory via the intuitive UEFI BIOS. The SMART DIGI+ Key combined with the TPU instantly overclocks CPU frequencies up to 85%, while the

new SMART CPU Power Level can reduce CPU wattage up to an incredible 50%. **Wi-Fi GO!** adds a complete suite of Wi-Fi functions for the ultimate convenience in home computing. Turn the desktop into a router, while also allowing you to access and remotely control your PC as well stream HD content to your DLNA devices.

**Fan Xpert 2** provides the most customizable cooling controls ever thanks to our exclusive fan speed detection. With Fan Auto Tuning Mode, optimal settings for each fan provide the best cooling solution.



LGA1155 socket for Intel® 3rd/2nd Generation Intel® Core™ processor family / Intel® Z77 Chipset  
4 x DIMM, max. 32GB, DDR3 2600(O.C)MHz / 8 x USB 3.0(2 at front)

ADVERTORIAL

**Aakash 2 tablet**

The Aakash 2 tablet, the improved version of the original Aakash slate due in May, will get dual-core processor and ICS <http://dgit.in/K1ebt4>

**Sony launches 4K projector**

Sony has launched its VPL-VW1000ES projector in India, supposedly the world's first home 4K projector, at Rs. 13,99,900 <http://dgit.in/IyHWDD>

## Google confirms Project Glass, shows off heads up display AR glasses

Google has officially unveiled what has been rumoured for the past couple of months – heads up display



The geek shall inherit the earth

glasses that will give the user augmented reality features and allow for direct interaction with

paired Android devices. At this stage however, Google's augmented reality glasses remain a concept, and no working models have been shown off.

Being developed at Google X Labs as Project Glass, Google's augmented reality glasses are expected to cost as much as a smartphone, roughly between \$250 and \$600. Apart from pictures depicting what a working model will look like (glasses with just one lens covered by the heads up display mechanism), Google has also released a video, which shows a young man interacting with his Android phone via his Google HUD glasses – making video calls, checking reminders, replying to messages, getting directions overlaid, using voice search, taking photos, etc. [d](#)

## Apple iPad mini to arrive later this year

The latest rumours out of the mill indicate that the once expected iPad mini may actually be launched in 2012, finally putting to rest Steve Jobs' famous prediction that any tablet less than 9.7-inches is just too small.

According to Chinese site, Netease, Apple has placed orders for roughly six million

7.85-inch iPad mini tablets. Apple apparently will ship them by the end of the year, or even in the third quarter, managing to meet Windows 8 and Google's budget tablet competition at the same time. The 7.85-inch iPad mini is expected to sell for roughly \$249 to \$299.

Software developers will be tearing their hair out in frustration, unless of course they've already adapted to the likes of the Kindle Fire. [d](#)

## Olympus' flagship micro four-thirds camera

Olympus launched its flagship micro four-thirds camera – the OM-D E-M5, which design-wise is reminiscent of retro film cameras and the older OM series of film cameras. It comes with a 16.1MP Live MOS sensor and a dedicated electronic viewfinder with a 1.44M-dot LCD, 100 per cent field-of-view coverage and around 1.15x magnification.

Other features include 5-axis image stabilisation, dust and splash-proof construction, 9 FPS high-speed shooting, a 3-inch tilting OLED touch-



Olympus OMD EM5-522

screen and a bundled M Zuiko 12-50mm lens. The Olympus OM-D E-M5 will set you back by ₹66,990 if you plan to only get the body. With the 12-50mm lens, the cost goes up to ₹77,990. You also get an 8GB Class 10 SD card free with the camera. [d](#)

## Intel lures kids with the Studybook

Yet another entrant in the education-centric tablet category (This space is getting crowded, isn't it?). Intel aims to tap the elementary education market, with the Studybook – a 7-inch slate powered by Intel Atom Z650 processor. Part of Intel's Learning Series, which also features ultrabooks and notebooks, the Studybook tablet can be made to work with on Microsoft Windows 7 or Google's Android Honeycomb platform. The tablet is the third product in Intel's line of low-power computing devices for the education market.

Intel's Studybook tablet comes with optional 0.3MP front-facing and 2MP rear cameras. Other optional features of

Studybook are an accelerometer, light sensor, 3G, Bluetooth (all models support Wi-Fi) and a mini-High-Definition Multimedia Interface (mini-HDMI) SIM card slot for 3G connectivity. Intel says its Studybook slate is drop-tested for a little over 2 feet, is water and dust-resistant and is suitable for kids as it weighs 1.2 pounds and measures 8.12x5.31x0.65-inches.

Intel's Studybook has a wide range of educational content, including an optimised e-reader that allows students to easily read text on the device, and a LabCam, which incorporates the Studybook's camera into a potential science lesson.

Loading and switching among apps is quick, and the audio quality is fine and clear, though a bit tinny. [d](#)



Participate in Digit Survey  
Win exciting Cooler Master  
products Flip to **Page 2**



# Introducing the latest addition to the award-winning Norton family



Norton 360 v6



**NEW**

Available in 1/3/5 and 10 User Packs

## NORTON 360™ v6

Your power against online threats and file loss

- Automatic 2 GB Online Backup (with an option to purchase more)
- Keeps your identity safe while banking / shopping / socializing online
- Keeps your kids safe online with award winning Norton Online Family
- Stops viruses, spam and other online threats
- PC Tune Up keeps your computer running at its best

SECURITY | BACKUP | MOBILE



**FREE** version of  
Norton™ Mobile Security LITE (Android)

Protecting the Stuff that matters.™





**Mobile watch**

Android and Reliance unite; what's in it for you? HTC's 3 new phones. Sony's 1<sup>st</sup> phone since it began flying solo

**App watch**

Enjoy the iPad's Retina Display on the newest iPad doing the rounds with these updated game titles

## Google+ gets facelift, claims to be “more functional and flexible” than ever

Google+ has had a makeover, and there are now plenty of new features, right from a redesigned navigation and Hangout interface to new Explore and Profile pages. The navigation interface sees previously static icons replaced by a dynamic ribbon, which can be used to bookmark and manage applications as well as perform quick-actions.

The new Hangouts homepage allows you to view a list of all invitations, get pro tips and provides quick access to public and on-air hangouts with a carousel of popular hangouts to choose from. Looks nice.



The updated Profile page now features much bigger photos, while the new Explore page will display most trending topics across each user's Google+ network. The chat interface has been rede-



signed as well, prioritising important contacts.

Google says the new design will help generate lively conversations, with users now able to share “full bleed” photos and videos, monitor an activity



drawer surround your uploading content and browse conversation cards to view discussions.

Would these changes make you want to switch from another social network cough\* Facebook cough\*. Write in and tell us. **d**

## Facebook wants to be like Google

Facebook is reportedly overhauling its search functionality to compete with Google, a move that could intensify rivalry between the two web giants even further. Reports tell us that about 24 Facebook developers, led by ex-Google engineer Lars Rasmussen, are working on a new search engine module.

The engine is likely to allow users to more easily browse Facebook status updates, notes, images and videos. Facebook aims to keep its users from jumping off its social network to use Google's search engine for browsing other information.



At this point, you're probably wondering that if Facebook is trying to focus primarily on giving users more access to content already available on its site, how it is competition to the God of Search Engines. Here's how: it's being speculated that the

social network plans to sell keyword ads, very much like Google and Bing do. It's going to be a rough ride for Facebook though, seeing how it has to ensure optimum privacy settings of users, as it can only integrate those results that a user has set for public viewing. **d**

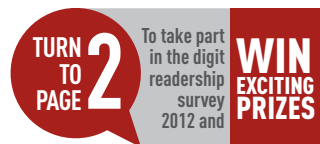
## BSNL's hosted cloud services take flight

Bharat Sanchar Nigam Ltd (BSNL), in collaboration with IT solutions provider Dimension Data, has launched as many as six internet data centres across the country. It hopes to tap the growing demand for hosted and cloud services by government organisations and private firms.

As a part of a 10-year-revenue share agreement, Dimension Data will operate and manage BSNL's data centres located in cities namely Mumbai, Faridabad, Ahmedabad, Jaipur, Ludhiana and Ghaziabad. State-run organisations such as Employees Provident Fund Organisation, Indian Oil Corporation Limited and Punjab Treasuries have already started

using BSNL's data centres on a pilot basis.

RK Upadhyay, chairman and managing director, BSNL, said, “With the launch of our data centres, we can offer secure hosted and cloud services to support various government initiatives as well as to our enterprise clients. We expect to sign more contracts from state and central government departments as well as several private enterprises shortly”. BSNL is said to also be eyeing distance education providers, private enterprise and defence services. **d**



## Security watch

Even Apple isn't safe from thieves. Find out about the updates that will keep your Mac safe. TRAI is in the news again. Who's Luckycat and why do they hate us?

Web Watch

## You can now edit images and videos on your PS3

Sony has launched a new cloud storage service called PlayMemories Online. It will allow owners of certain Sony products such as PS3 consoles to upload up to 5 GB of images and videos. Once uploaded, the content will be accessible and editable via the PS3, as well as smartphones, tablets and the PlayStation Vita.

Apart from uploading to the PlayMemories Online cloud storage service via PC and phone, cameras, camcorders and USB drives can also be plugged in directly to the playstation. PS3 owners can then view HD videos and images, and even do some editing – part of the PlayMemo-



ries Studio, which will be available as a 30-day free trial version, or roughly \$15 to buy. For PlayStation Plus subscribers, however, there's a free lifetime access.

## Your fix of art with no visit time limits, Google style

Art lovers rejoice, Google has launched its Art Project in India. You can choose from 30,000 high-resolution images of artwork by over 6,000 artists across the world – 40 countries to be precise – to view, appreciate and fawn over. What's more, Delhi-based

tual information such as title, date, artist and collection. Click on "details" and there's written information about the piece. You can also compile and create unknown information about collections and share them online via Google+.

"The platform gives you a fun and unique way to interact with art and we

hope this inspires you to visit the real thing. Users all over the world can now interact with art in a way that was never possible before - brush level strokes of paintings, virtual tour of the museums and a feature that allows you to create your own collection to share with your friends

and family," says Google in a blog post. Google's dedicated web site for Art Project is at [googleartproject.com](http://googleartproject.com)

Now we don't claim to be art connoisseurs ourselves but what's up with the conspicuous absense of great artists such as Picasso?



National Gallery of Modern Art and National Museum have also partnered in this Art Project campaign.

With Google Art Project, you can virtually walk through museum galleries – a feature powered by its Street View technology. Each piece of art has contex-



# TOP GUN TECHNOLOGIES

Best of the Best  
The Best Network & Security Labs in India

**Others Promise. We Deliver !**

**For A Highly Paid Career in India and Abroad**

**Special 10th Anniversary offer**

CCNA	Rs. 8,000/-
CCNA Voice	Rs. 12,000/-
CCNA + CCNP-R&S	Rs. 25,000/-
CCNA + CCNP-Security	Rs. 35,000/-
CCNA + CCNP-SP	Rs. 35,000/-
CCNA + CCNP-Voice	Rs. 40,000/-

**All Labs Conducted on CCIE Racks (Free interoperability labs with Juniper Devices)**

**Congrats to our Latest CCIEs**

Mr Naveen Kumar H	CCIE(R&S)#34903
Mr Anand Kumar G M	CCIE(R&S)#34629
Mr Shashank Singh	CCIE(R&S)#34290
Mr Shiv Shukla	CCIE(R&S)#34286
Mr Cenoj C Joy	CCIE(R&S)#34225
Mr Gokul Varma Konduru	CCIE(R&S)#33920
Mr Santhosh Kumar Ramalingam	CCIE(R&S)#33745
Mr Bhupendra Siyag	CCIE(Security)#33280
Mr Ajay Kumar Pal	CCIE(R&S)#33160

**We also Offer Specialized CCIE Training**

**Special 15 days Bootcamp for CCIE(R&S) : Rs. 60,000/-**  
**CCIE (Security) : Rs. 80,000/-**

**Lab Equipped with :**

150 Cisco Routers (2811, 1841, 2621 XM, 3600, 2600, 2500, 1700, 700), 40 Cisco Catalyst Switches (5000, 3750, 3560, 3550, 3000, 2950, 2900), Frame- Relay / ISDN, 12 Firewalls: SonicWall, Watchguard, Cisco PIX 515 E (UR), ASA 5510, PIX 501, 3005 VPN concentrator, 4240, 4210 IPS sensor, Nokia IP 330, Check Point, CiscoWAP/ NICs, Cisco Call Manager MCS 7825, Cisco IP Phones 7960, 7961.

**Local Accomodation Available**

**We have Graduated over 100 CCIEs.**

## BANGALORE

Visit our Website :  
[www.topguntechnologies.com](http://www.topguntechnologies.com)  
[info@topguntechnologies.com](mailto:info@topguntechnologies.com)  
[tgtechno@gmail.com](mailto:tgtechno@gmail.com)

SMS 080- 65616600

☎ 080-23528500

If you find a better Institute to do any of these courses, Join it !

**Social media saves lives**

Seven real-life scenarios in which a tweet, status update or application saved lives  
<http://dgit.in/l7wBOS>

**PureView 808 in Q2**

Nokia's super-cameraphone, the 41MP PureView 808, is likely to hit Indian shores in the Q2 2012 <http://dgit.in/JqJ1R2>

## Android goes blue, RCom to give away 3G data with smartphones

**R**eliance Communications (RCom) and Google India have entered into a two-year agreement under which RCom will be marketing Google's Android OS and mobile services in the country. As part of the agreement, RCom is offering 1GB of 3G data free with Google-endorsed smartphones.

Reliance is also planning to introduce expert customer care, carrier billing, exclusive apps and content in addition to the dedicated Android experience



Android trying its hand at something new

zone at Reliance retail outlets across the country. Reliance's new offer is applicable for all

new and existing pre-paid and post-paid customers, who upgrade and activate their

handsets with Google approved 3G Android devices, on the Reliance 3G network. The 1GB of free data offer is valid from April 15, 2012 to June 15, 2012.

Post consumption of 1GB free data, the customer will need to activate a 3G data plan or will be charged at 10p / 10 kb (pay as you go plan). The offer is only available in RCom's 13 3G circles: Delhi, West Bengal, Mumbai, Himachal Pradesh, Kolkata, Bihar, Orissa, Rajasthan, Assam, Madhya Pradesh, Jammu & Kashmir and North East. **d**

## An X and V by HTC

**H**TC officially launched the HTC One X and One V Android smartphones in India with MOPs of ₹37,899 and ₹18,299, respectively. However, take note that the HTC One S is still expected to arrive in Indian stores only by May.

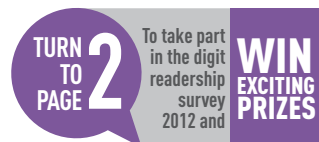
The HTC One series phones all run on Android 4.0 Ice Cream Sandwich and feature Beats Audio. The One X, V and S have 32GB, 4GB and 16GB, respectively, built-in storage without microSD card expansion slots. Instead, HTC will be offering 25GB worth of Dropbox online storage with the One series, with a 2-year free subscription. Makes sense since most of our data is slowly finding its way on the cloud.

The HTC One X is the company's new flagship device, and measures in at just 9.29 mm in thickness. It runs on a quad-core 1.5GHz Nvidia Tegra



The stylish looking HTC One V

3 processor, and features 1 GB of DDR2 RAM, with Sense 4.0 UI on top of ICS. The impressive 4.7-inch (1280x720 pixel) Super LCD 2 Gorilla Glass display is eye-catching, and comes coupled with an 8MP BSI auto-focus camera with an f/2.0 22mm lens. Read the HTC One X's detailed review here: <http://dgit.in/JWnIT2> **d**



## Sony Xperia S now selling for ₹32k

**S**ony launched its latest Xperia S smartphone in India last month with a price tag of ₹32,549. The Sony Xperia S is the first Sony-branded smart-

Let's get to the specs. The Sony Xperia S comes with a 4.3-inch TFT touchscreen, Android 2.3 Gingerbread OS (promised to be upgradable to the latest Android 4.0 Ice



The image quality doesn't compare to that of Arc or Ray

phone in India after the company parted ways with Ericsson's mobile business last year – future phone's won't have the Ericsson branding. Sony Xperia S was introduced at the Consumer Electronics Show (CES) event held earlier this year.

Cream Sandwich), 1.5 GHz Qualcomm dual-core processor, 1GB RAM and 32GB internal storage, and 12.1 MP camera. Don't get too happy with the high pixel count though – the images won't match expectations. **d**

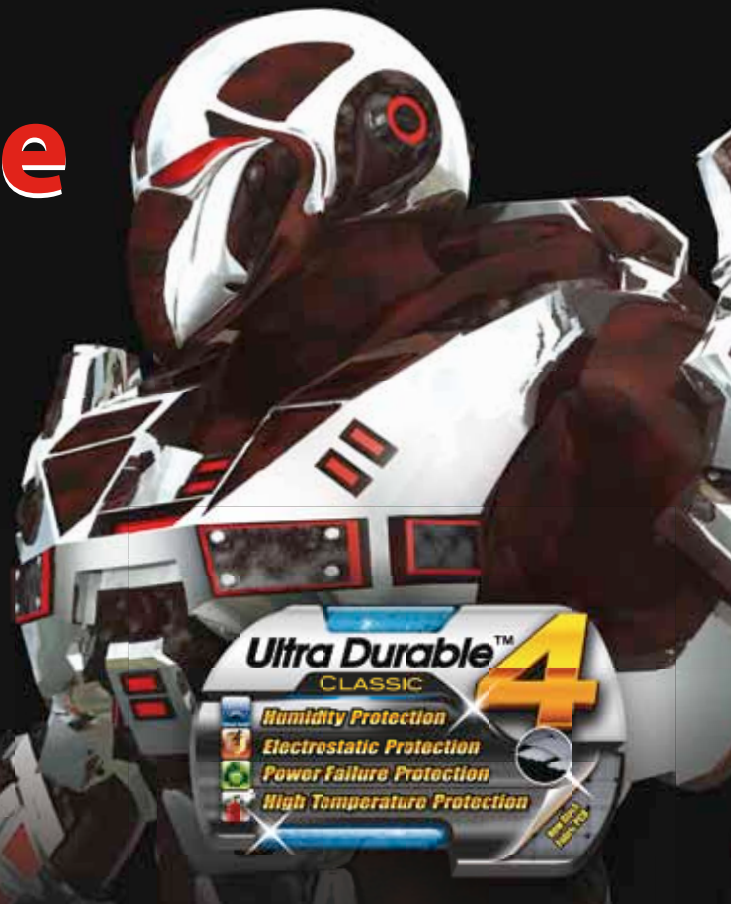


# GIGABYTE™

Insist on an Ultra Durable™ Motherboard for your new PC

## It's Worth the Upgrade

Experience hi-def media output on GIGABYTE H77 motherboards



### Humidity Protection

Traditional Glass Fabric PCB



**Better**

New Glass Fabric PCB



### Electrostatic Protection



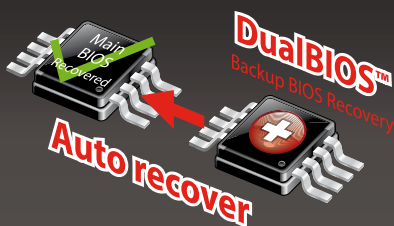
High ESD Resistance IC

ESD resistance level

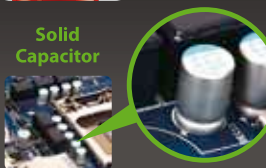


### Power Failure Protection

GIGABYTE patented technology



### High Temperature Protection



High performance creativity with Intel Smart Response Technology

GIGABYTE Technology (India) Pvt. Ltd.

Toll-Free No: 1800-425-4945; Tel: 022-40633222; Website: [www.gigabyte.in](http://www.gigabyte.in)

Gujarat 96246 00030; Maharashtra, Goa & Chhattisgarh 9967718653; Madhya Pradesh 93027 80368; New Delhi, Haryana 99583 72672; Himachal Pradesh 99100 86976; Punjab 98145 99992; Rajasthan 99100 86976; Uttarakhand 99353 21222; Uttar Pradesh, Chandigarh 99353 21222; Bihar, Jharkhand 90405 06080; North East 98642 30150; Orissa 90405 06080; West Bengal 98319 90308; Andhra Pradesh 96637 79002; Karnataka 96867 16443; Kerala 96334 90015; Tamil Nadu 98409 66725

\* Benchmarks for reference only. Results may differ according to system configuration.



### Portronics wireless mouse

Portronics launched its Imooze wireless mouse in India, priced at ₹799 for gamers and designers <http://dgit.in/HxuRt1>

### Facebook's Listen button

Facebook's added a new "Listen" button to its musician Pages, next to the Like button, powered by Facebook music streaming apps <http://dgit.in/K1ebt4>

# Now iPad's Retina goodness comes to your favourite game

Enjoy the Retina display with these updated game titles

Vishal Mathur

[vishal.mathur@thinkdigit.com](mailto:vishal.mathur@thinkdigit.com)

With the new Apple iPad now out and about, app makers have been scrambling to release updates making them look better on the 2048x1536 pixel Retina Display. For those of you using the older versions of the iPad, the download isn't essential, unless there are some

the pigs. The zero gravity elements add more fun to the entire exercise. Surely, once you download this, your mum won't let go of the iPad.

### Modern Combat 3: Fallen Nation

**Price:** \$6.99

This is one mighty huge download, at around 1GB, and for good reason – it's probably the best first person shooter game on the iOS platform. The visuals



Modern Combat 3 – Fallen Nation



Angry Birds Space

performance or stability updates added in the mix as well. Simply put, the higher resolution display means a much more interesting gaming and multimedia viewing experience. For those of you who've already splurged on this amazing tablet, it's time to take out that credit card again!

### Angry Birds Space HD

**Price:** \$2.99

The birds are back, and angrier than ever. This time, they're in space, doing what they've been doing all along – being mad at

and gameplay are excellent, and while it takes some time to get used to the controls, it's a delight once you do. Must download. Time to send the PlayStation 3 on a rejuvenation break!

### Real Racing 2 HD

**Price:** \$6.99

This is probably the best looking racing game on the iPad, at least till the inevitable *Real Racing 3* comes around. With the higher resolution display, realism is taken to another level. For anyone who loves racing games,



Real Racing 2 HD

### OTHER GAMES FOR YOUR IPAD


Some more games that you can check out, utilising the complete goodness of the Retina Display:

**Sky Gamblers – Air Supremacy** (\$4.99)

**Infinity Blade II** (\$6.99)

**Mass Effect – Infiltrator** (\$6.99)

this one is the most realistic one around – a VW Golf feels like a Golf, and a Nissan GT-R has the performance you expect from a GT-R! Another example of realism in this game – a muscle car (example: Ford Mustang)

refuses to go around corners like a GT-R or a BMW M3 would! Also, keep an eye for any limited time discounts on these games. Such offers come along from time to time, and we suggest you keep one eye on the App Store. 



**PNY**  
since 1985 New York

## Small Key, Big sharing

Ultra-light Ultra-thin Ultra-mini

**KEY** 4~32G  
**ATTACHÉ™**

- ◆ Turquoise/White and Grey/White duo-color.
- ◆ Portable, convenient access to information.
- ◆ Capless and compact design.



# No.1 Market Share in the U.S. retail market

★ Market research from The NPD Group, Inc. Nov, 2011.



USB Flash Drives



Flash Memory Cards



Memory Upgrades

**hp** **Authorized Products**



Join Facebook to win **Free Gift**

 [www.facebook.com/pnyindia](http://www.facebook.com/pnyindia)



PNY Authorized Distributors:

**Fortune Marketing Pvt. Ltd.**

TEL: 011-26414468  
Email: [sales@fortune-it.com](mailto:sales@fortune-it.com)  
<http://fortune-it.com>

**Balaji Solutions Ltd.**

TEL: 033-66331600  
Email: [info@balajisolutions.in](mailto:info@balajisolutions.in)  
<http://www.foxin.in>

Also available at:



GreenDust™



indiaplaaza™

infinbeam

JUMBO ELECTRONICS

KOVIS

letsbuy.com

P3

rediff SHOP & GIFT

tradus.in

[www.pny.com.tw](http://www.pny.com.tw)



### HTC One X update

HTC has started rolling out an update for the One X, fixing battery life, unstable Sense UI, overheating, and other issues. <http://dgit.in/I4qhqv>

### TRAI's 'per second' plans

TRAI's mandated operators to offer at least one tariff plan based on per second pulse rate, for both pre-paid and post-paid. <http://dgit.in/I4qFoY>

## Apple releases Flashback malware removal tool with Java security update

Apple has released an automated removal tool to help users remove the Flashback malware discovered by Dr. Web in April. It had infected an estimated half a million computers worldwide within a couple of weeks.

The Flashback malware is a Trojan that has been designed to exploit a vulnerability in Java, allowing it to steal user information through the web browser and other applications, and flash it back to remote servers. It has many variants, some that mask themselves as Adobe Flash video and other browser plug-ins that users mistakenly agree to install, and some that can even auto-install without direct user interaction.

Other companies released their own removal tools for the virus, starting with Kaspersky and F-Secure, and then Symantec, a little ahead of Apple – which had announced it would be developing one, two days prior to Symantec's tool release. Apple's tool will be part of a security update to Java. The fruity giant says the Flashback removal tool will get at the "the most common variants" of the malware, and also block automatic web page Java applet execution. The Apple Flashback removal tool is only available for systems

running OS X 10.6 or later, and will be bundled with the latest Java runtime, that also contains its own patches. The tool will install MRTAgent and a command line tool, which scour and find any Flashback malware



Apple no longer safe from trojans

instances, submit a log to Apple and then delete themselves. While all currently known Flashback variants should be successfully removed by the Apple tool, it will require regular updates to work effectively. Apple will also be working with internet service providers to try and disable access to the remote servers that the Trojan malware is co-ordinating with. Experts are predicting the time of "no malware for Mac" is at an end, with the bad guys or malware authors turning their sights to the platform, deftly using their experience with the Windows and Linux malware. You can download the removal tools with Java for OS X Lion 1212-003 or Java for Mac OS X 10.6 Update 8 packages. [d](#)

## China-based hackers target India

Hacker group Luckycat carried out a spate of cyber attacks on the web sites of the Indian government and Tibetan activists, reveals a report by IT security firm Trend Micro. The report further reveals that these attacks were part of an organised effort and attackers succeeded in compromising 233 computers. The Luckycat cyber campaign, is being linked with 90 cyber attacks in recent past that targeted the Indian, Japanese and Tibetan activists.

Baburaj Varma, Head - Technical Services (India & SAARC) Trend Micro says that the attacks have been traced back to hackers based in China. One of the group's members was found to be a Chinese university student. He further said that the attackers targeted a number of Japanese and Indian industrial sites working in aerospace, enginery, engineering,

shipping and military research. Chinese government involvement hasn't been ruled out since Tibetan activists were targeted.

According to reports, the computers were attacked with malware by prompting email recipients to open attachments. The attacks were said to be "extremely successful" and aimed at monitoring the targeted sites. The attackers behind the Luckycat campaign were given infrastructure to organise other attacks including the ShadowNet campaign.

Government web sites continue to be targeted by cyber attackers. Union Minister, Sachin Pilot recently revealed as many as 112 government web sites, including those of Planning Commission, the Finance Ministry and various State Government agencies, were hit by cyber attacks during a three-month period ending February 2012. [d](#)

## TRAI cracks down on spammers; asks for per second plan

The Telecom Regulatory Authority of India (TRAI) has reportedly disconnected 26,769 subscribers and issued notices to 36,156 subscribers for sending promotional SMSes and making unsolicited calls. The regulator further said it had penalised 94 telemarketers and blacklisted four other telemarketers for violating its SMS Spam regulations, which came into force on September 27, 2011.

In other news, the regulatory authority has also asked all service providers to provide at least one tariff plan of one paisa per second (for local and national long distance calls) in addition to other plans for both, postpaid and prepaid subscribers. This, however, doesn't come as a cause of concern for leading telcos since they already offer such an option.

The regulator continues to maintain its stand on the existing cap of 25 tariff plans that can be offered by service providers. [d](#)



The new member of your family brings you  
**Surveillance • Security • Safety**



Bring the new member of your family the DIGISOL IP Surveillance Camera. Security & Surveillance have become crucial in our times. DIGISOL offers the latest technology in Surveillance which helps you to keep an eye on your homes, offices & retail stores. Now you can keep surveillance from your smart phone with the help of specially created phone apps. Live Worry free with DIGISOL.



### Digisol range of Surveillance Products



#### DG-SC2100/ DG-SC2100W

- Compact Design
- Supports wireless IEEE802.11b/g/n
- Simultaneous Viewing
- Ideal for all indoor and home surveillance



#### DG-SC2600/ DG-SC2600W

- 1.3 Megapixel CMOS Sensor
- Supports wireless IEEE802.11b/g/n
- High quality video streaming at low bandwidth
- Ideal choice for SOHO and SMB surveillance

POE



#### DG-SC3630

- 1.3 Megapixel with Pan/Tilt function
- IR LED for Night Vision
- Power over Ethernet support
- Ideal for monitoring wide area 24x7 basis



#### DG-SC3610W

- 1.3 Megapixel with Pan/Tilt function
- IR LED for Night Vision
- Supports wireless IEEE802.11b/g/n
- Ideal for monitoring wide area 24x7 basis

POE



#### DG-SC3800P

- 3 Megapixel with Pan/Tilt function
- IR LED for Night Vision
- Built-in SD/SDHC memory card slot for local storage
- Ideal for monitoring wide area 24x7 basis

Switching | Broadband Routing | Wireless LAN | Converged Communication | **IP Surveillance** | LAN Communication

Ahmedabad 9879559496  
 Bangalore 8095333115  
 Bhubaneshwar 9937032592  
 Chandigarh 8427003249  
 Chennai 9962988079

Delhi 9958333874  
 Goa 9158899414  
 Guwahati 8486002029  
 Hyderabad 9246114755  
 Indore 9713030706

Jaipur 9828122252  
 Kolkata 9830615800  
 Lucknow 9198749999  
 Mumbai 9004096230  
 8879399983

Patna 9570495962  
 Pune 9158899103  
 Raipur 9584855522

Helpdesk : 1800-209-3444 (Toll free) | E-mail : helpdesk@digisol.com | Website : www.digisol.com



A product of Smartlink Network Systems Ltd.

Corporate Office:

Plot No. 5, Bandra-Kurla Complex, Off CST Road, Santacruz(east), Mumbai- 400 098

### Crowdsourcing

Digit takes a closer look at this 2009 buzzword to see if it's still relevant in 2012

### 5 cool ways to use GPS

Transform your smartphone into a fitness trainer, restaurant finder, geotagger and tracking device



### McBeats head-phone featuring Graff diamonds

If you're a big fan of bling – like Lil Wayne featured here or LMFAO at the Super Bowl – and Beats Audio, then these diamond-studded Beats headphones are perfect for you. There's not much dirt on the specs but these cans will set you back by a whopping ₹5.2 crores. This baby may not appeal to the audiophile in you though. Watch its promo video here: <http://dgit.in/13Ezop>

# Seriously expensive gadgets you simply can't afford

### Victorinox 1TB Swiss Army Knife

Try to think of an uber-cool thumb drive. Can't think of any? Well, take a look at the Victorinox Swiss Army Knife. It's not just any army knife; it has a powerful tool concealed within to conquer your burgeoning appetite for data-on-the-go – a 1 terabyte USB 2.0 flash drive. Apart from the thumb drive, the tool comes with all the trademark blades and knives. Just why one would think of sticking a 1TB thumb drive into this set defies logic and basic weapon knowledge, but it's meant for a digital warrior, perhaps? ₹1.6,00,000 for this weapon-cum-accessory.





### BenQ projector for 39k

BenQ's Joybee GP2 projector is come to India. It's portable and has an ultra small form factor  
<http://dgit.in/JJWhvs>

### Airtel eyes Qualcomm's 4G licences

After launching 4G services in Kolkata, Airtel is planning to bring 4G to circles such as Delhi and Mumbai  
<http://dgit.in/Ij5mhnGMhJOQ>

Drool maal

## iPhone 4S Elite Gold

Here's something that will leave you feeling like a dog tag sporting rapper – a gold-studded iPhone 4S. There are 500 diamonds (100 karats in all) on the phone's bezel and 53 diamonds alone on the Apple logo. A set of crystal earphones is also thrown in. The price? A mere ₹48.7 crore.



## MWE Emperor 200

If your office chairs suck on ergonomics, all you need to do is somehow steal the MWE Emperor 200. It's a custom built, scorpion-shaped throne (workstation is too lame a word to justify the Emperor 200's coolness and comfort) that's built to your requirements. It can be fitted with three monitors, touchscreen control panel and an electric-powered leather seat. The MWE Emperor 200 also houses an air filtration system. After ordering one for ₹23.6 lakhs, you'll have to wait for at least six months to park your tushy on it.

## Harry Winston Opus 12

For the uninitiated the Harry Winston Opus 12 may be just a watch, but this 18-karat gold time teller is a serious work of art. For a gadget that costs approx. ₹1.36 crore, it has to be, right? The Opus 12 has blue metal arms shaped like daggers for traditional minute and hour hands, while a driving wheel that turns them from grey to blue indicates time. Watch its promo video here: <http://dgit.in/I4noGf>







### Nokia adds Traffic

You can now get traffic update on your Nokia via Nokia Maps  
<http://dgit.in/HmorRN>

### Facebook Download tool

You can now download your personal account histories, chat conversations and IP addresses as well <http://dgit.in/HVnkEG>

# CROWDSOURCING

Is it just a fad? Or is it really useful? We take a closer look at this 2009 internet buzzword to see if it's still relevant to us in 2012

Rounak Jain

[readersletters@thinkdigit.com](mailto:readersletters@thinkdigit.com)

**C**rowdsourcing, a combination of the words "crowd" and "outsourcing," is the phenomena that powers one of the world's most visited sites, Wikipedia. It's increasingly finding application on the internet, in ways which you may have not even thought of.

## Who, what, when?

For those unfamiliar with the term, crowdsourcing is simply asking a large bunch of people to perform a certain task. Put more elegantly, it is relying on a large, generally unknown, population of people to get work done. Although traces of pre-internet days exist, crowdsourcing today is primarily based off the web, connecting people from various geographies. Wikipedia is probably the best popular example of crowd power. It's a publicly editable encyclopaedia with a "neutral point-of-view." The site uses a combination of crowdsourcing and editors to ensure that the content on the site is updated frequently, with no factual errors.

Kickstarter, started in 2008, helps individuals and small groups of people set up a web page describing their project and asking people to pledge a certain amount of money towards the project – be it indie films, video games or food-related projects. Once the total amount pledged towards a project passes a threshold set beforehand by the project creators, the idea goes into "production" stage. The site's basic motive to spread creative ideas

and help them come to life has resonated well with the internet, with the site getting pledges worth more than \$175 million since its existence.

## Current heartbeat

For crowdsourcing, the internet helped unlock a large group of people with a common aim. Take for example petition sites such as Change.org and Avaaz.org, which allow ordinary people to raise their voice for or against certain issues. During Anna Hazare's anti-corruption fast, more than five lakh Indians came together, in just 36 hours to support the campaign on Avaaz.org, which promotes activism on issues such as climate change, human rights, corruption, poverty, and conflict.

Even the Indian government turned to crowdsourcing when it decided that the Rupee currency needed a proper identification symbol. The Ministry of Finance, in 2009, announced a competition to create a symbol for the rupee, results of which were announced in July 2010. The symbol "₹" is now used officially in currency notes and coins.

Another category where crowdsourcing has really taken off is informa-

tion aggregation and curation on the web. There's so much content on the web, and the signal to noise ratio is very low, which means that discovering good content isn't an easy task. Sites such as Digg, Reddit, Slashdot and Hacker News attempt to bring some balance to this ratio by letting people submit links to web pages which blew them away, and people can vote on them. Links are then sorted according to the number of votes they get, thus surfacing good content. Just like Wikipedia, news aggregation sites such as Techmeme and Memerandum use a combination of crowdsourcing and editors to get the best of both worlds.

## What's happening in India?

There's a lot more to do with crowdsourcing in India than the recent example of designing the Rupee symbol. Many organisations are using social media as a platform to gain information about their audience. Traffic police from various cities are encouraging residents to report traffic violations through Facebook; Parle, through its Twitter followers, gathered data about the availability of its products in various regions across India, and





## Amazon on PlayStation 3

The Amazon Instant Video app will be available to PS3 console users, with over 120,000 movies and TV shows for users to purchase and rent <http://dgit.in/IyHyFr>

## Did you know?

Among Facebook users, 38 percent share negative information in their status updates, according to a Gothenburg statement

Feature

T-series is looking for actors for its next movie on YouTube.

Trying to emulate the success of Kickstarter, we have Rang De, a non-profit that gives the economically weak a platform to borrow money to execute their entrepreneurial ideas. The non-profit's end goal is to reduce poverty in India.

With internet connectivity gradually penetrating villages in India, crowdsourced projects that don't require a lot of knowledge would prove to be a hit in these places.

### What's next?

Some new avenues for crowdsourcing includes the following: The U.S. Military is experimenting with crowdsourced approaches to design vehicles. The Reddit community tried drafting its own legislation, dubbed the "Free Internet Act," protesting anti-piracy laws like SOPA and PIPA. YouTube organised a project named "Life in a day" to make a documentary based on people's daily lives.

Another ambitious crowdsourced project was Meshnet, the name given to an alternative version of the internet, that certain users on Reddit wanted to build, free of government control or any sort of censorship.

People on the internet want to be a part of something big, want to make a difference and not just share pictures of cats. This is why ambitious crowdsourcing projects gather appeal and participation.


### Challenges to crowdsourcing

Of course, along with traditional institutions, even the "crowd" on the internet needs to mature. There have been various instances in which a group of people on the internet ganged up with a mob like mentality, often for a legitimate cause, but end up doing more harm than good by adopting unlawful ways.

The internet community still needs to figure out a way to deal with trolls. Till now the solution's been to strike a balance between the "openness" and the control, but it's far from ideal.

Another problem that plagues many crowdsourced information gathering attempts is accuracy of information. A survey, for example, has no concrete way of ensuring that the data being entered by a person is accurate. A large sample space would, however, minimise this "noise," unless, of course, you're up against the most notorious forum on the internet, 4chan. The hacker collective "Anonymous", regulars at the 4chan forums, decided to "precision hack" the 2009 Time Person of the Year Poll to declare the founder of 4chan a winner. Read more about the Time Person of the Year Poll hack: <http://dgit.in/Inucx3>

### The big picture

The low barrier of entry to the web has catalyzed crowdsourcing and given it a much-needed shot in the arm. With added interest and growing participation, we can actually hope to make a difference. Crowdsourcing is definitely here to stay. 



SOFTWARE LICENSING AND MANAGEMENT

## Discover New Revenue Opportunities .....

PROPRIETARY SOFTWARE  
SAFEGUARD  
Licensing Lifecycle  
TECHNOLOGY  
SOFTWARE  
INCREASED REVENUE  
ENFORCEMENT  
ENTITLEMENT  
SAAS SOLUTIONS  
ADMINISTRATIVE  
ENTITLEMENT

### Find the right way ahead for your business with SafeNet.

Guarding against the risk of piracy and IP theft is essential. But what are you doing to create new revenue opportunities and meet customer demand?

SafeNet's innovative Sentinel HASP licensing and management solutions can provide you with the control and visibility you need to enforce licensing and optimise your product.

With secure and flexible licensing –

- You can protect revenue and IP
- Offer a variety of license models to flexibly package products
- Reduce operational costs with flexible technology designed to easily integrate with your existing software package



### Try Sentinel HASP today!

To experience our award winning Software Licensing security solution.

Write us to:  
[info.apac@safenet-inc.com](mailto:info.apac@safenet-inc.com)



### 10 techie t-shirts

10 really cool t-shirts that every geek needs to take a look at <http://on.mash.to/1L1ETq>

### Facebook app for India

Facebook's feature phone app, available for Java-enabled phones, now supports Hindi and seven other Indian languages. <http://dgit.in/Ij5sFx>

# 5 COOL WAYS TO USE YOUR GPS-ENABLED SMARTPHONE!

Go beyond making calls! Transform your smartphone into your fitness trainer, restaurant hunter, geo tagger and personal tracking device!

Sameer Mitha

[sameer.mitha@thinkdigit.com](mailto:sameer.mitha@thinkdigit.com)

**Y**ou've just picked up a brand new smartphone/tablet and want to make the most of GPS-enabled services and apps on it. This device could be an Android smartphone/tablet, iPad, iPhone or any other device that has GPS enabled on it. Essentially, when an app says that it would like to use your location, it will use the mobile network, Wi-Fi or the onboard GPS (Global Positioning System) to identify your location. But to pinpoint your accurate location, you need to activate GPS on your device first.

There are a number of apps and activities that a user can take advantage of with a GPS-enabled smartphone. Monitor where children (yours hopefully) are, find the nearest restaurant or prove that the tower of London isn't behind you in that picture courtesy Photoshop.

GPS-enabled apps also help perk up your social life. Seriously. You can find which pubs your friends are in, know what movie they're planning to watch and even which restaurant they went to last night.

### Spy on...um, we mean track your buddies

Say you want to keep an eye on grandpa so you know where he's at any given moment during the day or you want to know if the kids are going to school

everyday. Well, thankfully it's possible to track the movement of your loved one if both you and they have GPS enabled.

The simplest way to track the location of your friends and family is through Google Latitude. Adding someone to Latitude is as simple as sending them an invitation and voila! Your location can now be shared with friends and family.

Google Latitude can be accessed not only from your smartphone or tablet, but from your computer as well. On either device, all you need to do is log on to [Google.com/latitude](http://Google.com/latitude). To run Google Latitude, GPS isn't a criteria but it helps pin-point the exact location. All the device needs to be capable of is Google Maps. Latitude works with any device, be it an Android, iPhone, BlackBerry, Windows Mobile 5.0+ or Symbian.

There are many other apps that can help users share their locations with friends and family. Some such apps are Foursquare, Glympse and echoecho. These three apps are available for free on Android, iOS, BlackBerry, Windows Phone and Symbian.

### Make your relatives jealous

Geotagging is the ability to add the exact location where the photo was clicked. This nifty little feature has seriously taken the world by storm. Online photo sharing and social networks have added this ability, ensuring the location at which the photo was taken is appropriately represented. If you take pictures with your smartphone

rather than a point-and-shoot (although many point-and-shoots today have an in-built GPS for geotagging), you can tag the location at which the picture was clicked. Almost all smartphones ask for access to your location to automatically geotag the images you click with the device. If you're an iPhoto user, you know the benefits of geotagging as you can take advantage of the Places feature of the software. Your photos are presented on a map with red pins where you've either assigned a



Geotags help organise your pics by location

place or taken photos with an iPhone. If however you'd still prefer to use a point-and-shoot, there's a way to use the GPS from your smartphone to geotag the images you've taken on your camera.





Available with Titanium Maximum Security only.

# TITANIUM™

## (Anti-Virus Products)

**YOUR DIGITAL LIFE - PROTECTED.**

REAL-TIME PROTECTION | LIGHT ON RESOURCES | SOCIALIZE SAFELY | PARENTAL CONTROLS  
SECURE ERASE | SMARTPHONE PROTECTION | DATA THEFT PREVENTION  
ANTIVIRUS | ANTISPAM | ANTI SPYWARE

**For more details contact:** avneet.kaur@trend-micro.in**Trendmicro India Pvt. Ltd.** 501 & 502, 5th Floor, DLF Place, Saket, New Delhi - 110017 **Phone:** +91-11-4269 9000.**Mumbai:** 801, 8th Floor, Housefin Bhavan, Bandra Kurla Complex, Bandra (E), Mumbai - 400 051 **Phone:** +91-22-2657 3023.**Bangalore:** 511 - 512, 5th Floor, Prestige Meridian - I, 29 MG Road, Bengaluru - 560001 **Phone:** +91-080-4096 5068.

## Effective tech

13 simple ways to stay efficient with technology while you work  
<http://tnw.co/HMBhpo>

## Lumia 900 software bug

Nokia confirmed a Lumia 900 software bug affecting data connectivity  
<http://dgit.in/JqJaEb>

One popular app available on iOS and Android that will help you geotag your location on photos is Geotag Photos Lite (free). The Pro version will cost you ₹201 on the Google Play Store and \$3.99 (₹205 approx.) on Apple's App Store. A great feature of the app is that it allows you to use your smartphone's in-built GPS to store the location data, and add it to photos taken with your digital camera later. The catch is that the clocks on your smartphone and camera need to be in sync. The photos can be automatically geotagged by matching the time at which they were taken.

## Take your date to an exotic place for a change

So you've decided to go on vacation with your beau to a new city. But you really don't know the best local joints to hang out at or spots to experiment with that exquisite cuisine you'd heard so much about. Fear not, your smartphone comes to your rescue! There are a smorgasbord of apps that will give you details of places you can visit in your proximity. Three apps that are really useful here are Foursquare, Zomato and Burrrp available for free on the iOS App Store and the BlackBerry App World. Zomato and Foursquare are available for free on the Google Play Store and the Windows Phone Marketplace as well.

All the apps use your location to give you the best options closest to you. Zomato only gives you the option of dining out, food home delivery and the nightlife in the city, where as Foursquare and Burrrp give you a wider range of activities to choose from such as food, nightlife, shops, art, outdoor, events, movies and more.

These apps not only provide you with details of the restaurant/event but also give you access to the menus and user ratings. It's very simple to navigate through these apps and find a place best suited to your needs. If you're worried about how to get to your chosen destination in the new city, don't worry. All these apps will show you the location of your destination on Google Maps and provide you with directions as well. Don't feel like the new kid in the city now, do ya?

## Dope out the best way to get home or anywhere

Obviously, the first thing that comes to mind when someone says GPS is "maps". Yes, this is by far the most used feature by any smartphone user who uses GPS. It's true that the maps aren't always accurate, especially in a country like India and they aren't the best at giving the most accurate directions but they get the job done for getting users from point A to point B. This is especially useful if you're in an unknown city and the locals are doing a pathetic job of helping you with directions.



Find the best way to get home

For iOS and Android users, Google Maps comes in-built on the device. We recommend updating the app as and when you see an update available, as this will drastically improve the results you get. Windows Phone devices come preloaded with Bing maps.

Even though the maps and features on smartphones aren't as elaborate as the ones found on dedicated GPS devices, they get the job done nonetheless.

You can type anything in the directions option of the app – be it the name of a mall or a street or even a restaurant – if the location is popular, it will pop up on the maps. Just don't expect the route to be the fastest or the shortest, especially in India.

## Give Taylor Lautner a run for his money

You can use the GPS on your smartphone to keep fit, especially if you're a runner. There are apps that map the route you've taken, the distance you've run, your speed, calories burned and so on and so forth.


A variety of apps available on the Google Play Store and the Apple App Store will satisfy the runner in you.

But one app that really caught our attention is the Run Keeper Pro. The app actively tracks your distance covered,



Keep your body in tip-top shape

how much time you took and the route – all in real time. The app stores all your data and you can view it anytime by logging on to [runkeeper.com](http://runkeeper.com). You can also geotag photos clicked during the run and share all the data captured by the app via email or social networks.

Serious runners will truly appreciate some features of the app. The app indicates if you're ahead or behind your target pace so you know if you need to speed up or slow down. There's also an in-built heart rate monitor but you'll need separate equipment to take advantage of this feature. The best part about this app is that it's absolutely free. 

# COWON Z2 plenu



Full HD 1080p Video Playback  
16M color Display 3.7" AMOLED  
JetEffect 5 | Lossless Mixer  
1GHz ARM CORTEX-AB CPU  
+800MHz Full HD VPU + 320 MHz Mali 3D GPU  
Android OS | Floating Design | Wi-Fi  
FM Radio & Recorder  
HDMI Tv-Out | Built - in - Speaker  
Micro SD Card Slot | Bluetooth | G-Sensor |  
Touch Feedback | NTFS File System  
Capacity - 8/16/32 gb

## All about Sound

### Cowon CE1

Driving Unit : 10 mm  
Impedance : 16Ω  
Rated Power : 3m W  
Max Power : 20m V  
Sensitivity : 101 dB (at 1mW)  
Frequency Range : 10Hz to 22,000 Hz  
Cable Length : 1.2 M  
Plug : 3.5 mm



Extreme Clarity, Deep Bass



1080p Full HD & 16M Color AMOLED Display



DIGITAL PRIDE.

**COWON**  
[www.cowonindia.in](http://www.cowonindia.in)

**National Distributor :**

**LIPAP SYSTEMS PVT. LTD**

Tel: 022 - 29271307/08/1347/40032653

Email: [iaudio@lipap.com](mailto:iaudio@lipap.com)

Buy Online : [www.cowonindia.in](http://www.cowonindia.in)



# DO YOU REALLY NEED THAT ACCESSORY?

We all love our gadgets and like to dress them in a variety of accessories, some useful, others not so much. Here we argue about their efficacy

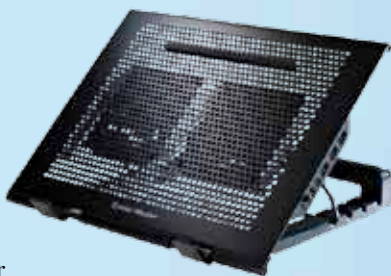
Jayesh Shinde  
[readersletters@thinkdigit.com](mailto:readersletters@thinkdigit.com)

**W**e have a lot of distractions in this materialistic world, us tech-nophiles. Every new gadget we buy demands our attention to optimise, customise, tinker and tweak our experience with it. Sometimes, the urge isn't as much to do something more with our existing gadgets, as it is to give them a much-needed facelift, however expensive or ridiculous be the outcome. All of us are guilty of having been there and done that.

Within these two pages, we present a few accessories and validate their usefulness in our technology-filled lives. Maybe you'll agree, maybe you won't but the idea is to stop and check if you really need (and not merely want) that accessory for your gadget.

## Laptop coolers Mostly effective

As people are gradually buying more laptops than desktops compared to a couple of years back – proven by a number of IDC and Gartner reports – their hunger for laptop-related accessories has concur-



Laptop coolers are multi-taskers

rently risen. Take for example laptop stands and coolers.

A laptop stand or cooler primarily aims to solve your laptop's overheating issues, trying to keep its operating temperature down under full load. We reviewed one such laptop cooler, the Cooler Master Notepal U Stand (read the review here: <http://digit.in/JBNR5V>), and it brought down a laptop's temperature by up to 10 degree Celsius in various scenarios. These laptop coolers/stands also house a couple of more USB and other useful connectivity ports to add to your laptop's set of I/O ports. So yes, we deem laptop coolers – as long as they aren't insanely expensive – to be effective accessories to combat your laptop's overheating woes.

## USB lights Not that effective

If you've ever made a big deal of the need to illuminate your laptop keyboard when using it in close to complete darkness, you probably forgot that in certain scenarios and acute screen angles, your laptop's keyboard is nearly always bathed in enough light to navigate the keys effectively. In such scenarios, the USB flex light you bought to illuminate your laptop's keyboard while travelling on a long-distance flight seems a bit pointless.

What's more, most of these inexpensive USB flex lights aren't powerful enough and don't come with controls to customise the intensity of their glow. Unless you've found other useful applications for its use, the USB light to illuminate your laptop's keyboard is a bit of a waste.



## Liquid cooling kits Only for bragging rights

It wasn't too long ago when overclocking one's PC meant cranking up on hardware that replicated northern India's summer heat waves inside the cabinet. For enthusiasts, the answer has almost always been to opt for a liquid cooling kit to keep their PC's CPU and GPU temperatures in check. However, in 2012, overclocking buffs shouldn't instinctively make a grab for the coolest liquid cooling solution out there, since it may quickly be turning into a fad – unless you're trying to compete in a global overclocking competition.

With Intel's LGA 1155 CPUs, it has generally been observed that high-end air coolers are able to provide just as much overclocking potential as a good liquid cooling kit for your CPU. The area of GPU overclocking still benefits from liquid cooling setups, however they're very expensive. As far as CPU overclocking is concerned, liquid cooling kits may not be as great an option as they used to be five or six years ago.

## Portable speakers Mostly effective

This is definitely a good idea. While testing laptops, smartphones, tablets and other mobile computing devices, we've learned that the onboard audio on most of these devices is generally underwhelming and doesn't match up to a decently performing external audio solution – this is natural, since mobile devices have form factor and weight restrictions which limit their audio output and quality severely.

But this problem is immediately solved by connecting your laptop, smartphone, tablet, etc., to a portable speaker that either connects via a 3.5mm jack, USB port or, in some cases, bluetooth. Don't buy the cheapest, most inexpensive portable speaker out there, but if you spend over ₹1,000, you should be able to find a well performing portable speaker for your mobile device.



Portable speakers are a good alternative to onboard audio

## Tablet bag/case Yes and no

If you've newly acquired a tablet, either an iPad or one of the myriad Android alternatives, you'll soon be concerned about preserving its scratch-free surface and purchasing a bag that helps you easily stow away your tablet.

While purchasing your tablet bag, it's important to distinguish between what's cool and what's not, irrespective of how cool your tablet inside it may be. We absolutely love the Cocoon GRID-IT Wraps which accommodates 10-inch and 7-inch tablets. The bag takes care not only of the tablet but also of your phone, charger wire, earphones with space for plenty of other electronic accessories. Check out <http://dgit.in/I5rPOs> for more. On the other hand, beware of buying something like Assero Defender (<http://dgit.in/JL9ePN>) – it's a glorified child backpack carrier, and seriously uncool. 



Participate in Digit Survey  
Win exciting Western Digital products Flip to **Page 2**

**ECS**  
ELITEGROUP

**ECS Golden Board  
My Game My Rules**

### Z77H2-A2X



- LGA1155 CPU
- Intel® Z77 Chipset
- 2 PCIe Gen3 x 16
- 2 PCIe Gen2 x 1
- 2 PCI
- 4 Dual-channel DDR3 2800(OC) / 2600(OC) / 2400(OC)
- 4 SATA 6Gb/s (RAID 0,1,5,10)
- 2 SATA 3Gb/s
- 6 USB 3.0 / 6 USB 2.0



### H77H2-M3



- LGA1155 CPU
- Intel® H77 Chipset
- 1 PCIe Gen3 x 16
- 1 PCIe Gen2 x 1
- 2 PCI
- 2 Dual-channel DDR3 1600 / 1333 / 1066
- 2 SATA 6Gb/s (RAID 0,1,5,10)
- 4 SATA 3Gb/s
- 4 USB 3.0 / 10 USB 2.0



### H61H2-M2



- LGA1155 CPU
- Intel® H61 Chipset
- 1 PCIe x 16, 2 PCIe x 1
- 2 Dual-channel DDR3 1333
- 1 HDMI (Optional), 1 DVI, 1 D-Sub
- 4 SATA 3Gb/s
- 8 USB 2.0



### G41T-M7



- LGA775 CPU
- Intel® G41+ICH7 Chipset
- 1 PCIe x 16, 1 PCIe x 1, 1 PCI
- 2 Dual-channel DDR3 1333 (OC) / 1066 / 800
- 1 D-Sub
- 2 SATA 3Gb/s
- 8 USB 2.0



Distributed in India by



**RASHI PERIPHERALS PVT. LTD.**

e-mail : [response@rptechindia.com](mailto:response@rptechindia.com) website : [www.rptechindia.com](http://www.rptechindia.com)



# Insight into Accessories

Accessories are hotter than ever before, and we speak to industry experts to understand why

Siddharth Parwatay  
readersletters@tbindigit.com

One of the ways by which we can add more functionality to our gadgets is by installing apps. There are literally millions of apps in the marketplace waiting to transform your device, making it act in ways you never thought possible. But what about the physical limitations of your smartphone, tablet or laptop? Drop an iPad and you know in your heart that it's not going to end well. Or at the end of a particularly hectic day you find your smartphone running out of juice. Or perhaps your laptop is overheating way

market for accessories in India is still small. Here it's estimated at around \$3 million but it's growing steadily thanks to the increase in the spending power of the people. This immense growth has been partly due to the fact that the smartphone is now part of daily life, especially in the past two years," said Dinesh.

Head of Category Management, at eBay India seems to agree with this growth story. "With increasing popularity of Tablets we have seen a year-on-year growth of 250 per cent in accessories for this category. We've also witnessed an impressive growth of over 100 per cent for mobile phones car kits and chargers, followed by cases and pouches for tech

products like laptops, tablets and mobile phones etc.," he said.

Spending in the accessories space can be measured and Zebronic's Director, Rajesh Doshi has an interesting take on how to do this. According to him, "The accessories market in India is not as big as developed markets. The accessories market in India for laptop is around 10 per cent of the laptop price over the lifetime of the device. This would mean for

a laptop worth ₹30,000, on average consumers here will spend around ₹3,000 on the accessories, whereas in developed markets, it's around 30 per cent."

## Why this boom in accessories?

We spoke to Crane Chen, India Country Manager for Cooler Master and came away with a few insights. He lists down a few reasons for this growth:

**Market maturity:** The Indian consumer is slowly making tracks for mobile devices (laptops, smartphones, etc.). Availability of affordable smartphones, relatively cheap netbooks and, lately, tablet computing is driving this acceptance. As they gravitate towards these devices, they

find the experience incomplete without supporting accessories. For e.g. in case of smartphones, the battery life is always a concern and hence battery backup packs become a necessity. Netbook/ultrabooks are slim, so there's a need for protection cases, folios, NB coolers etc. Tablets are



iPad sleeves are popular

redefining the way we consume media and have spawned their own range of accessories e.g. folios, stylus pens, protection cases, stands, etc. customised for this category. In today's scenario, these auxiliary devices a.k.a. accessories are a need rather than a want.

**Availability:** A few years back if you wanted to buy accessories you would've probably ended up with cheap Chinese knockoffs. But today, all global brands are available at your neighbouring store; that too at reasonable prices. Large retailers (Croma, eZone), specialty retailers (Apple stores) and booming online shops ensure that



A category fast catching up

product availability isn't an issue anymore – you don't have to hunt the market in the hot sun for hours for a



**"With newer user groups coming in, there's a big opportunity for accessories to represent the consumer's lifestyle"**

Rajesh Doshi,  
Director, Zebronic

beyond the accepted norms. No app will come to your rescue in such cases. The only thing that can help you is a good ol' real world accessory: a battery pack for your phone, hardcase for your iPad and a cooler for your laptop. And it's not just limitations that can be overcome by accessories. People all over the world add their own personal touch to their gadgets by using accessories to bling 'em up.

One thing is for certain, the action is not just in the apps space. The accessories business is heating up like crazy. According to Pinakin Dinesh, CEO of Amzer, an accessories maker, the accessories market is worth around \$40 billion, and is estimated to reach \$150 billion by 2020.

"Accessories generated \$28 billion in revenue last year alone, however the

particular product! The result? Adoption of these products will only go up.

**Product design:** Today accessories are designed with lifestyle in mind. Consumers demand better designed products to reflect their lifestyle and this has a huge bearing on the acceptance. Nobody wants to flaunt a battery pack that looks like a box! With international brands in the fray, products with better and unique design are hitting the market. Ultimately, consumers get to choose the design they like!

**Acceptability:** As mentioned earlier, consumers have matured and are ready to



Users customise laptops with skins

try new things. For e.g. A couple of years ago, nobody would see a notebook cooler as an essential commodity, but today, they're flying off the shelves!

### So what's the next game changer?

"The tablet space will grow faster than expected. Also hybrid power chargers with fuel-cell technology and cases with nano technologies will change the space," according to Amzer's Dinesh.

Laptop accessories is also an area that will flourish in the coming few months. As per Crane Chen of CoolerMaster, contrary to popular belief, laptops are alive and kicking. "In India, this category is witnessing huge growth, not only in the conventional channel, but also in modern retail stores. In the past one year, we've seen our notebook cooler business grow by leaps and bounds! Previously, consumers would shy away from NB coolers, because they didn't see the need for it. But the real reason behind non-acceptance was lack of understanding. Most people believe laptops have internal

cooling (vents on the side/bottom) but, this cooling is only for CPUs. HDDs, RAM, Wi-Fi cards, etc., aren't actively cooled and these components are in need of cooling too. A laptop cooler helps cool these components and lower ambient temperature."



Laptop coolers are gaining importance

Doshi from Zebronics is also gung-ho about laptop accessories. "There's a boom in the laptop accessories market due to laptop sales in India. The work scenario is also changing and more and more companies have developed work-from-home policies. This coupled with a steady decline in the prices of laptops in India has led to a revolution of sorts", he says. 



## NETWORK ATTACHED STORAGE

### N4100EVO

**Evolve Your Digital Office**

- Cavium Dual-Core CPU
- 4 bays for up to 12TB
- Hardware RAID Technology
- DLNA-Compliant Media Server
- RAID Accelerator






### N5200XXX

**Expand Your Data. Expand Your Reach**

- Intel® Atom™ D525 Processor
- 5 bays for up to 15TB
- 1GB DDR3 RAM
- iSCSI Thin Provisioning






### N7700PRO

**10GbE Ready. 7-Bay Power Storage Server**

- Intel® Core™ 2 Duo Processor
- 7 bays for up to 21TB
- Unique Dual DOM™ Design
- iSCSI Thin Provisioning








**Contact - Kapil Chheda - 09920560837 - kapil@apical.in - www.apical.in**



# TOP Ultimate 100 accessory guide 2012

Last year we explored the streets of Mumbai and Delhi to get you the best el-cheapo gadgets and accessories you could lay your hands on. This year, we decided to scour the interweb, to get you some

## Mobile Accessories

1



### iPhone Blood Pressure Monitor

For the health conscious Apple fanatic, now your loved ones can monitor your blood pressure while you are catatonic, because you're awaiting Mac World announcements.

<http://dgit.in/K89nXW>

\$100

2

### Gmate

Listen up ye el cheapo budget buyer, who for years has cribbed about the iPod Touch being an iPhone without a SIM. Your prayers have been answered. This SIM device will connect to your iPod Touch via Bluetooth making it into an iPhone! Rejoice!

<http://dgit.in/J6IoGy>



₹5,490

3



### 9000mAh Battery Backup

Don't be stranded in the wild with no battery. This little device will give your phone that much needed chance at life.

<http://dgit.in/InznhZ>

₹4,815

4

### Bose Bluetooth Headset Series 2

A comfortable and premium Bluetooth headset brought to you by the people who believe in better sound through research. The device adapts to the ambient noise to deliver a seamless conversation.

<http://dgit.in/Ie4VUE>



₹8,888

5



### Olloclip lens

The complete package that will enhance the camera on your iPhone 4 and 4S. The pack includes fisheye, wide angle and macro lens attachments.

<http://dgit.in/Ixsfdz>

₹3,000

6

### Jabra Freeway in-car speaker

Most people aren't happy wearing bluetooth headsets for long durations. This is where the in-car speaker is useful. Clip it to the visor, and connect with the phone via Bluetooth.

<http://dgit.in/IpWVE9>



₹6,800

7



### JBL On-Beat dock

For anyone and everyone looking for a snazzy looking iPod dock without compromising on performance and burning a hole in the pocket, the On-Beat is the one to consider.

<http://dgit.in/KityOP>

₹9,900

8



~₹6,000

### Pebble Watch

The result of a famous Kickstarter campaign that raised 3.8 million dollars towards funding, this little device promises to be quite a big thing. An e-ink display and the ability to pair with your phone and host its own apps makes the possibilities limitless.

<http://dgit.in/Iov5b6>

9

### ISTUCK Phone Stand

Having bubble gum stuck on you is pretty gross, but there is a way to make it look cool. The ISTUCK Bubble Gum Phone Stand leaves your hands free to enjoy some entertainment on your smartphone.

<http://dgit.in/Ith1fF>



₹1,569

## Mobile+Tablet Accessories

10



### BoostCase Powerhouse Duo

One 6600 mAh battery pack that will charge both the iPhone and the iPad simultaneously. The goodness extends to the fact that you can use this with any USB device.

<http://dgit.in/KhdkEM>

₹8,784

11

### MicroVision ShowWx+ Laser Pocket Projector

Extremely useful device if you keep a whole lot of movies and videos on your phone or tablet. Meant for iOS devices, but will also work with any device that has TV-out capability.

<http://dgit.in/JNl1bk>



₹28,000

12



### Bowers & Wilkins Zeppelin Air

Probably the ultimate Air-play speaker for the iOS devices. This will look brilliant on the mantelpiece in the living room! And belts out tunes with equal brilliance.

<http://dgit.in/IwJyiq>

₹42,000

13

### Capacitive Touch Screen Knit Gloves

For the days when it's cold and you still want to use your phone or tablet what do you do? These gloves carry capacitance and let you use your touchscreen with ease.

<http://dgit.in/IWQQub>



₹1,199

14



### Clingo Black Green universal car mount

Be it a GPS navigator or a phone, this universal mount is the fit-it-and-forget-it kinds. Quite a convenient accessory if you are a heavy user of GPS navigation while driving, or even use your phone in the Car Mode.

<http://dgit.in/IedLVv>

₹3,800



cheap, some not-so-cheap and some downright expensive accessories. We've tried to ensure that at least fifty per cent of these accessories are from Indian sites or sites such as eBay's Global Easy Buy that ship easily to India. But not all of these wonderful things are available on Indian web sites, which is the beauty of it. Not only are we giving you a bunchload of accessories to explore, but also giving you a whole lot of ideas to jazz up your boring old gadgets. And who knows some of the more industrious amongst you may smell a business opportunity. To make things simpler, we have neatly categorised them. So grab some pop-corn, read on, and logon

### Laptop Accessories

15

#### Logitech Z 205

Entry-level laptop speakers are nothing to write home about, but while watching movies, you need the sound to be loud, even if it's not clear. Invest in this clip-on speaker, turn on a movie, sit back and enjoy. <http://dgit.in/IdKYQO>



₹1,625

16

#### Laptop Keypad Cover

Protect your keypad from accidental coffee spills and other damage by using these simple silicone covers. They come in a pack of five. Of course you may not always get such colourful ones. <http://dgit.in/KixoHt>



₹299

17

#### Canon DK 1000i - USB Calculator

Typing out the numbers from the horizontal number arrangement atop the alphabets is slow and painful. Specially for someone who uses the calci a lot. Why not invest in this? <http://dgit.in/KgNXD6>



₹1,728

18

#### Touchmate Multi-purpose laptop table

Are you one of those people who hate to keep the laptop on your, well, lap? Here is a multi-purpose table which has a dedicated laptop holder and you can also place your coffee mug on the side. <http://dgit.in/IJPhAk>



₹1,425

19

#### Swiftpoint Mouse

This revolutionary design for a mouse utilises a pen-grip and the mouse itself is no bigger than a ping pong ball. You can use it on the palmrest of your laptop or on the table. <http://dgit.in/JwKMZ5>



\$74

20

#### Inkfruit Laptop skins

Go ahead and show off your personality by strapping on one of these skins on your laptop body. Coming from InkFruit which is renowned for its user generated t-shirt designs, the laptop skin is bound to have attitude. <http://dgit.in/I83571>



₹249

21

#### GRID-IT Laptop Bag

It's the ultimate laptop case that makes any other laptop bag or case out there eat humble pie. The GRID-IT bag can hold a 13-inch laptop and features flexible woven nylon straps that can be used to hold an iPod, camera, mouse, ruler, sunglasses, the list is endless. <http://dgit.in/InAxKf>



\$49

22

#### Kensington lock

You must've seen laptops in retail stores tethered to a metallic wire. That wire's connected to a proprietary lock called the Kensington Lock. At the end of the metal or rubber wire is usually a key or combination lock. Very useful to secure your digital gadgets. <http://dgit.in/Ia9ZXY>



₹2,060

23

#### Virtual laser keyboard

This is for the trend setters, who do not mind spending money to acquire something that very few people on the planet have. This laser keyboard unit projects a full size QWERTY keyboard on any surface and gives you key click sounds as you type your way to glory. <http://dgit.in/I83eHE>



\$179

24

#### AViiQ Ready Clips

Make tangled cables a thing of the past with these ramrod straight cable clips which you can clip to your shirt pocket or bag. <http://dgit.in/IxsSUV>



Upto \$30

25

#### Logitech Anywhere Mouse MX

Unlike other laser mice, thanks to its dark field technology, this laser mouse works on any surface, even glass. It makes for a perfect companion to your notebook, unless of course you decide to opt for the Swiftpoint Mouse. <http://dgit.in/IE7wsB>



₹5,225

26

#### Altec Lansing Orbit USB iML227

Powered by your USB port these speakers make excellent travel companions. They aren't too big to stow away in a regular size laptop bag either. <http://dgit.in/I2MFyb>



₹1,200

27

#### iZen Keyboard

Show off your eco-friendly side by getting this bluetooth keyboard which is made from 92 per cent bamboo. It is recyclable and renewable. <http://dgit.in/Tow3En>



\$99

28

#### Cooler Master Notepal U Stand

The Cooler Master Notepal U Stand is a good laptop stand that we've tested and duly recommend. It actually drops laptop temps by 10 degrees C on full load and comes with a host of USB port and customisable fan placement. If your laptop overheats, this is a must buy. <http://dgit.in/IE7FMB>



₹2,500

# Subscribe to **digit**

for 2 years and  
get **iRadioPOP** let's have fun  
worth ₹2,750/- for **FREE**



- ✓ 20,000 Radio Stations
- ✓ 10,000 Web TV Stations
- ✓ 10,000 games

To know more about  
iRadioPOP,  
visit  
[thinkdigit.com/iRadioPOP](http://thinkdigit.com/iRadioPOP)



OFFER EXPIRES ON  
31<sup>st</sup> MAY

**ACT!  
NOW!**

Visit:  
[thinkdigit.com/subscribe](http://thinkdigit.com/subscribe)

OR

SMS **DIGIT SUB** to  
**92200 92200**

OR

Fill the attached form  
and send alongwith  
a cheque/ DD

**1 YEAR OF DIGIT SUBSCRIPTION GIVES YOU**

<b>1000+</b>	<b>600+</b>	<b>500+</b>	<b>250+</b>	<b>15+</b>
Product Reviews	Problem Resolutions	Tips & Tricks	GB of Software & Games	Fast Track Books

For more such exciting subscription schemes, please refer to the attached  
subscription form or visit [thinkdigit.com/subscribe](http://thinkdigit.com/subscribe)

We accept major Credit Cards | Debit Cards | Net Banking | Cash Cards | Mobile Payments (SBI- Paymate)



**Chirag**  
Official IT Partner of KKR



**Go win IT**



Chirag- India's most affordable desktops and laptops, offers the most cutting edge technology for all round savings. Pre-loaded with Windows® 7 they offer Smart Power Mangement, automatically conserving power to save costs and protect the environment. The range starts from Rs 15,490\* only!

Greenputers is available at **PLUG & PLAY** ■ **Bengaluru:** JAYANAGAR: 080 26762128/38/48 ■ **Kolkata :** SALT LAKE: 033 23215117 SAKHERBAZAR: 033 24989631 GARIA: 033 24352726 ■ **WEST BENGAL:** KAIKHALI: 033 25735824 Khardah: 033 25236251 BARRACKPORE: 033 25451441 UTTARPARA: 033 26634652 CHANDANNAGAR: 033 26855229 CONTAI: 03220 289085 HALDIA: 03224 275106 BURDWAN: 0342 2663358 RANIGANJ: 0341 2443174 BARUIPUR: 033 24335311 SILIGURI: 0353 2520669 KRISHNANAGAR: 09674759250

R P Infosystems Ltd. (An ISO 9001:2008, 14001:2004 & 18001:2007 Certified Company)

\* Plus taxes



## Tablet Accessories

29



### GoFLEX Satellite Mobile Wireless Storage

The GoFLEX Satellite device let's you take your media library on the go and stream it wirelessly to your iPad, Android tablets, and smartphones. The device will give you a battery life of up to 7 hours. <http://dgit.in/JKu65i>

₹11,769

30

### Voltaic 1017 Spark Solar Tablet Case

The Spark tablet case has panels that are waterproof, lightweight and built to withstand abuse. About 10 hours in direct sun will fully charge an iPad or iPad 2, longer for 3rd Generation iPad, other tablets may take less time. <http://dgit.in/InBqCz>



₹21,380

31



### Bluetooth Mini Wireless Keyboard for iPad 1 2 3

Some neanderthals have still not gotten used to on-screen keyboards. Here's a very cheap bluetooth solution for your tablet woes. <http://dgit.in/IoxsLa>

₹899

32

### Griffin High Sensitivity Stylus

Have some drawing related or note-taking apps on your tablet? This stylus with a soft rubber tip will make you feel as if you are holding a pen. <http://dgit.in/JF5ZE1>



₹1,299

33



### Micro HDMI Male to HDMI Female Adapter

If you have a regular HDMI cable but your tablet sports one of those small Micro HDMI ports what do you do? Try this <http://dgit.in/IdKQAW>

₹399

## Apple Accessories

34

### iHome iD9

Want to share the songs on your iPad/iPhone, without investing in a dock which will break the bank? Here is an option available around ₹8,000 which can not only be a speaker, but can also be used as a digital frame. Charging while you listen to songs is an add-on. <http://dgit.in/IE8Njo>



₹8,000

35



### Foldable HiFi Speaker Dock / Cradle Stand for iPad iPhone iPod

Have even less money to spend? Go for this tiny foldable iPod dock. It powers itself via USB so theoretically you can take it camping too. <http://dgit.in/JuxQqk>

₹4,362

36

### Bling Trend Handset - Black

How many of you miss holding that phone receiver to your ear while taking a call? Bling Trend handset allows you to do just that on your iPhone. <http://dgit.in/Ie6wtT>



₹1,125

37



### 4 in 1 Lens for iPhone 4

That iPhone 4 has a wonderful camera is a given, so why not explore photography beyond just its stock lens. This 4-in-1 kit includes an 8x zoom lens, fisheye lens, macro lens and a wideangle lens. <http://dgit.in/IE8WTR>

₹5,388

38



### iWatchz

The Timepiece collection transforms your beloved 6th Generation iPod nano into a practical, fun and stylish timepiece all at the flick of a wrist. Imagine, music, podcasts, photos and more, all conveniently and readily available in a super sleek, impeccably designed wristband. Make the most of your iPod nano's ability to tell time. <http://dgit.in/JrlyxI>

₹5,391

39

### Nike+ FuelBand

A wearable fitness gadget on which you can set your fitness targets and monitor your progress. The device records your activity throughout the day. You can view the statistics on your iOS device. <http://dgit.in/IaaDEU>



₹17,567

40



### Gecko Deluxe Folio

If you are the kinds, who loves his/her iPad but would rather have a keyboard to type out long documents while on the iPad, the Gecko Deluxe Folio is the accessory that is a perfect fit. <http://dgit.in/IvYoDd>

₹4,999

41

### iBallz: Shock Absorbing Harness for your iPad

An easy to put on case, the iBallz Shock Absorbing Harness gives your iPad Four shock-absorbing foam rubber balls provide 360-degree drop protection. <http://dgit.in/IwePls>



₹2,448

42



### Leica M9 Vintage Camera iPhone 4 case

Show off your love for photography with this Leica M9 iPhone case. Shock your photography club friends with this cover and earn some points in the uber cool department. <http://dgit.in/Ihkqic>

₹1,762

43

### Tembo Trunks Silicone ear-phone amplifiers

Give your regular iPod earphones an amplification boost with these silicone speakers for a change. They will command attention thanks to their sheer size. <http://dgit.in/IdK1YL>



\$39

44



### iPhone TK-421 case

Not such a big fan of the touch-screens, but at the same time cannot let go of the iOS ecosystem? Give a flipout keyboard to your iPhone with this TK-421 accessory. <http://dgit.in/JwMNog>

\$50

45

### BiKN

Powered by a protective case which fits snugly around your iPhone and tiny tags that you can attach to important objects, helping you locate lost items. <http://dgit.in/IdK5rz>



\$130

## Automotive Accessories

46



### HD-VC780 COLOUR TV

Bored of sitting behind the car and being stuck in traffic? How about catching up on that movie collection on your external hard drive while sitting back and enjoying it on this 7.8-inch TFT display? <http://dgit.in/Ihkyl8>

₹9,199

47

**Car Drive Alert**

This little device will make sure you don't snooze off while driving. Once worn, it'll analyze the angle of your neck and buzz whenever your head dips down. Maybe we would use it during exam time too.  
<http://dgit.in/IaaMs8>

₹500

48

**Night vision rear view camera**

Avoid blind spots while reversing your car at night. No night vision does not imply visibility in complete darkness in this case. The reflection of a rear-view camera is horizontally flipped so that it produces a mirrored image.  
<http://dgit.in/Ie5zSa>



₹2,999

49

**Scosche USB 12v Car Charger**

Charge your phone, tablet, or just about anything that charges via USB, while on the go in your car.  
<http://dgit.in/IvWqT8>



₹899

**Home Accessories**

50

**Sun Jar**

Sun Jars and Lava Lamps have been quite a thing abroad and now finally these curious little luminous baubles have started becoming easily available here too.  
<http://dgit.in/KgO95e>



₹1,999

51

**Dexter Blood splattered coasters**

For fans of the thriller series *Dexter*, this coaster set is just a way of showing off your affinity towards blood splatters.  
<http://dgit.in/Iow0IE>



\$20

52

**Keyboard Welcome mat**

Welcome the guests at your home with this Welcome mat which has a keyboard design on it, thereby establishing the fact that the guest is entering the house of a certified geek.  
<http://dgit.in/IvWGBC>



\$32

53

**Pivot Power**

Add some spice to the boring old power strip, with this articulated powerstrip which is flexible so you can arrange the power connectors in a way such that all the power plugs are comfortably connected on it.  
<http://dgit.in/IhixWQ>



\$30

54

**Dyson Air Multiplier**

This is as designer as it gets. Dyson's Air multiplier is basically a bladeless fan which comprises a hollow ring. Air is basically sucked into the base of the fan and then forced around the inside of the ring and shot out to one side of the ring.  
<http://dgit.in/IxsWU9>



\$300

55

**Air Switch**

If unique home equipment is what you dig, this Air Switch is right up your alley. It is just like a normal lamp which does not require any plug points. It uses hand gesture to turn the light on or off.  
<http://dgit.in/JwLpC4>



₹6,299

56



₹3,299

**Clocky Chrome**

Are you one of those people, who will diligently put an alarm, and then when it rings, snooze it off for over two hours and then realise 'OMG I'm late, again'? Invest in this alarm clock which has wheels and the moment your hand goes near the snooze button, it will roll away, leaving you with no option other than to get up.  
<http://dgit.in/I83mH1>

57

**Periodic Table curtain**

For chemistry geeks and followers of *The Big Bang Theory*, this periodic table curtain makes for an interesting gift item. Not only is it functional, but it also helps you recall element names and their short forms quickly.  
<http://dgit.in/IhjCKm>



\$30

58

**USB vacuum cleaner**

Always a handy USB accessory to have considering how dusty things can get in our country. Just power it with the USB port and clean up the tricky space between the keyboard.  
<http://dgit.in/Iaa91J>



₹400

59

**Digital luggage scale**

Getting charged extra by an airlines because of excessive luggage isn't fun. This digital luggage scale will prevent that. It's accurate up to 40 kg of load (with a 20g margin of error).  
<http://dgit.in/IZugSb>



₹474

**USB Accessories**

60

**USB hub cum pen holder cum speaker**

So many things rolled into one, this little accessory has got to be cool. Plus the LED can be used as a nice night lamp.  
<http://dgit.in/IwevD9>



₹299

61

**USB Finger Mouse**

Use this finger mouse on any surface. It uses an optical sensor to guide your pointer, while you have to use your thumb to click the left, right and scroll buttons. Should be good for cramped spaces such as on a flight.  
<http://dgit.in/IE7Mrs>



₹399

62

**USB Digital microscope**

This one is for all you science geeks out there. Using this digital microscope powered by your humble USB drive, you can go all the way from a 20x to 200x magnification level.  
<http://dgit.in/IwewHf>



\$70

63

**Darth Vader USB hub**

If you are a *Star Wars* fanboy, make that bloody evident by having this ubercool USB hub. If you aren't a fan, then gift it to a friend (we are sure you will have a friend who is a *Star Wars* fan) and see the glee on his/her face.  
<http://dgit.in/Ih5vCP>



\$94

64

**3-digit USB security lock**

Go old school on your USB drives and lock them up, well literally, with this 3-digit security lock. No need to get the USB encrypted when no one can really plug in your USB drive.  
<http://dgit.in/Ih5wqs>



\$7



65



**Zebronic SATA HDD docking station**  
Got a lot of spare HDDs, but not enough space to keep them or attached permanently? Worry not. This SATA HDD docking station takes in 2.5-inch and 3.5-inch HDDs and using the USB port allows you to transfer data.  
<http://dgit.in/I83DeU>

₹1,650

66

## USB Mini Fridge

Beat the heat with this cool and convenient mini fridge that connects to your computer via USB 2.0 port. It can hold a can of your favourite beverage, with no extra batteries, at a constant temperature of 8.5 degrees.  
<http://dgit.in/IdJFS0>



\$33

67



## MkII Web Cam Missile Launcher

To kill boredom in the office, how about some cubicle war games? With the USB-connected MkII foam missile launcher, you can inject fun anywhere – not just at office – as long as you have a laptop or PC.  
<http://dgit.in/IowYEI>

\$15

68

## USB to SATA / IDE Adaptor Cable

A USB solution that can take one SATA or one 2.5 inch IDE or 3.5 inch IDE hard drive. A great way to make USB drives out of those HDDs you've got lying around.  
<http://dgit.in/Jfg8Sa>



₹990

69



## USB Accessories

This little Flashlight is supposed to be powerful, doubles up as a keychain and even works on AAA batteries. Best part is it can charge via USB.  
<http://dgit.in/IhjYjW>

₹1,422

70

## Belkin USB 7-Port Powered Desktop Hub

Yes this thing can add 7 ports to your crummy laptop which could seriously use more ports. Since it's powered it can manage some serious data between attached devices.  
<http://dgit.in/IE8mp8>



₹1,140

## Miscellaneous Accessories

71



## Kindle Silicon cover

Kindles seem to keep slipping especially when held by greasy, sweaty palms. Want to add more grip to your Kindle ebook reader? Invest in this nifty little silicon cover.  
<http://dgit.in/IdJLck>

₹475

72

## Vanguard CK3N1 Lens Cleaner

It makes sense to get a lens cleaner to keep the dust off your expensive optical instruments such as camera lenses, binocular lenses, etc. Set includes an air-blower, a brush and an all-natural cleaning solution.  
<http://dgit.in/IvXzud>



₹1,012

73



## Clip-on LED light

You want to read a book on a long and arduous train journey but your co-passengers want the lights off at 10pm. This clip-on light is the perfect solution for you.  
<http://dgit.in/JrInTd>

₹400

74



## Mini Universal Flexible Octopod Spider Stand

Think Gorillapod and add some more limbs to it. Not only can you use it as a camera holder, but also as a stand-cum-holder for your cellphone, a key-hanger. The possibilities with this Octopod are numerous.  
<http://dgit.in/Jfg5Wx>

₹349

75

## Neocube Jumbo(buckyballs!)

This set comprises 343 balls of Neodymium magnets which can be used to create 3D models. A great gift for creatively inclined friends and also a wonderful stressbuster.  
<http://dgit.in/IE89CA>



₹1,899

76



## Crystal Ball

This serves no real purpose as such, but is a sexy looking accessory to have on your desk. You can fake reading your friends' future by touching this pseudo crystal ball, the arclights within which will follow your fingers.  
<http://dgit.in/Ie67aM>

₹850

77

## USB Cell

Are you tired of your batteries running out? And hate those boring old batteries that you need to charge in that clunky old charger? Try the cool new USB batteries.  
<http://dgit.in/IKhhE6>



\$17.90

78



## OMRON Step Counter HJA300

If you are a compulsive jogger and want to track your activity, but if you don't have a smartphone with the gyroscope, worry not. Invest in one of these. It shows calories burnt, distance covered among other things.  
<http://dgit.in/Ie63YA>

₹3,000

79

## Pi Ice Cube tray

Mathematics has some cool symbols. Pi is one of them. Take your love for math to an altogether different level with this Pi ice cube tray.  
<http://dgit.in/IdJC8F>



\$9

80



## WiDi Detector T Shirt

Are you too lazy to check your smartphone for Wi-Fi signals? Just wear this WiFi signal tee shirt and let its glowing LEDs let you know if there is a Wi-Fi hotspot around.  
<http://dgit.in/IE7ReO>

\$20

81

## Function Tactical Adventure Tool

This 13-function tactical adventure tool incorporates a whistle, compass, thermometer, tweezer, etc. Not really a swiss knife replacement, but a funky clipon to your backpack.  
<http://dgit.in/Ie5WfG>



\$10

82



## Solar Charger

No battery? This solar charger just requires solar energy to store charge which can be used to charge devices later. It houses a 11250mAh battery and has 29 adapter tips for charging laptops, tablets, cellphones.  
<http://dgit.in/IvWX7E>

₹7,511



83

**Wooden Headphone stand**

Don't let your expensive sound cans lie on the cluttered computer table. Instead get this elegant wooden headphone stand.  
<http://dgit.in/IwepeP>

₹1,750

84 **Instaprint**

How about getting Instagram photographs printed from a dedicated photobooth via Wi-Fi? This design project is awaiting funding, but is expected to sell for around \$400.  
<http://dgit.in/Ihjv00>



~\$400

85

**Wrist-mounted Piano**

This Japanese invention looks like some weird glove straight out of some old VR game. Press your fingertips against any hard surface and hear that piano note emerge from the speaker on your wrist.  
<http://dgit.in/Ihjtq9>

\$40

86 **Create your own bobble-head doll**

God created man in his own image and now you can play god and create a bobble-head doll that looks just like you! Fun and quite a conversation starter this one.  
<http://dgit.in/I83bvp>



~₹119

87

**Wrapster**

No need to spend 15 minutes untangling your headphone when you take them out of your bag next time. Wrapster makes sure your headphone cords don't tangle in themselves like spaghetti.  
<http://dgit.in/Kg07KB>

₹263

88 **Optimus Maximus Keyboard**

This ain't no ordinary keyboard. It features 113 OLED screens - one for each key. These keys change dynamically too with whatever you're doing on the comp for eg photoshop. Of course you could get an entire high-end rig in that much.  
<http://dgit.in/IZt7df>



\$1,799

89

**USB 3.0 PCI Express Card**

If you don't have a USB 3.0 slot these days you might find yourself at a loss. Plunk this accessory into your PC and transfer data at blinding fast speeds.  
<http://dgit.in/JF56eR>

₹3,537

90 **Branded USB Extension Cable**

This USB extension cable from Belkin will ensure that you don't have to go around bending your back if your cabinet is on the floor or inside a locked closet.  
<http://dgit.in/I832If>



₹1,500

91

**3M Pocket Projector MP180**

Presentation time? All you've got to do is reach for your pocket. This palm-sized projector is equipped 32 lumens of brightness, 120 minutes of battery life, 4GB of internal memory.  
<http://dgit.in/JffpQS>

₹33,999



92

**Livescribe Echo Smartpen**

This one is for all those chronic note takers out there. This pen here apart from notes, records audio, acts as a calculator, translator and even plays a piano once you tap on the keys of drawn miniature piano.  
<http://dgit.in/IvW6Uv>

\$119.95

93 **Kelvin.23 All In One Tool**

A super functional hand tool, it comes with an unimaginable number of attachments. These include 16 essential screwdriver bits: Hex, Flat, Phillips, Square and not to mention an LED light and hammer.  
<http://dgit.in/Iwe4c8>



\$24.99

94

**Personal Speaker Pillow**

Hammacher Schlemmer's The Pillow Speaker are compact and can go inside a pillow, while being connected to any smart-phone, iPod, PMP with a 3.5mm jack.  
<http://dgit.in/IZrhco>

\$29.95

95 **Backlight for Macbook Pro**

Apple is notorious for its design values, but somewhere a backlit keyboard didn't make sense to them. No issues. Get this sort of LED grid that'll fit snugly between the key and give you enough illumination for those late night... err... reads.  
<http://dgit.in/K8cGOR>



₹1,672

96

**Violight UV Cell Phone sanitizer**

Smartphones ooze germs and bacteria. With the Violight UV cell phone sanitizer your phone will be germ-free in just 5 minutes. If you don't clean your phone regularly, consider buying this to stop infections.  
<http://dgit.in/Ixs2XR>

₹3,000

97 **Wavebox Portable Microwave**

Get Instant popcorn the next time you go for a picnic. The removable AC cord and extra-long DC cables give you the option to power the WaveBox with a 12-volt battery or in-vehicle power outlet.  
<http://dgit.in/Ixs9n8>



\$349

98

**Porn Detection Stick**

Paraben's Porn Detection Stick is a USB thumb drive that connects to your PC and scans for pornographic content (pics and videos) in your PC. It also scans through deleted images and internet cache files, generating a report.  
<http://dgit.in/IdJNAU>

\$20

99 **Mini USB To Micro Usb Converter**

A handy utility, geeks would want this accessory in their backpack. You never know when you need to convert that small mini USB on someone's phone to a proper USB.  
<http://dgit.in/JF5PFU>



\$10

100

**The Dot iPhone Panorama Lens**

This Lens uses mirrors to shoot 360-degree video. Whether you're at a concert, or family picnic, this lens captures all the action all at once. Just place it over the back of your phone the same way you'd put on a case.  
<http://dgit.in/JrLZDJ>

\$79





# Google's Project Glass

## Dawn of a new future or a spiced-up borrowed idea?

Many have experimented with the technology Google is playing around with these days. Why bother? Read on...

Radhika Dimri

[readersletters@thinkdigit.com](mailto:readersletters@thinkdigit.com)

For quite some time now, tech circles have been abuzz with Google's latest venture. The company apparently hired augmented reality (AR) experts to come up with something similar to Oakley's Thumpers sunglasses which have built-in audio players. On April 4, when the first look of its Glass Project was finally revealed, reactions poured in from all corners. From creating euphoria at the wonderful, mind-blowing possibilities ahead to facing skepticism towards the technical feasibility and practicality of a pair of glasses you're forced to wear all day long, Google managed to do what it does best – capture the world's imagination to show us a future which seems mystical and yet achievable. Even those doubtful about it will have to accept that the lifestyle predicted runs very high on the cool factor! Check out the video <http://dgit.in/glassproj> if you haven't already.

The team behind the project seems very capable. And excited. Just a day after the unveiling of its video, Google co-founder Sergey Brin was spotted wearing a possible prototype at a fund raising dinner. How soon the product will be in your hands, though, is a question still far from being answered. The question we're exploring today is: how original is the idea itself? Let's take a closer look.

### The technology

Augmented Reality is a live, direct or indirect view of a physical environment that's made possible by computer-generated input including sound, video, graphics and GPS data. Science has been trying to bring the physical and the vir-



Snapshot of the heads up display of the Google Glass Project

tual worlds closer since forever now, and AR is the fast merging boundary between the two. Its applications are unbelievably vast and impressive.

Like most revolutionary technological innovations of our times, this too grew out of university labs. Consequently, there now exist concepts and prototypes of AR-integrated devices that can revolutionise the very way in which we live. There are AR-equipped bionic lenses being worked upon and numerous smartphone apps already existing in the market.

### The competition

By early 2000s, there were more than just a bunch of real-world applications for the technology. From videogames such as Quake (called ARQuake) to AR-enabled clothing, the uses were limitless. It was around this time that the idea of AR glasses was first explored. Infact, while Google is showcasing a "future" technology, com-

panies in the market already sell similar glasses with integrated displays for military, industrial and even commercial use.

Among the early adopters was the company Vuzix, whose first low-cost AR glasses, iWear VR920, were released in 2009. Targeted specifically at gamers and virtual world enthusiasts, they consist of two LCD displays fed real-time footage by an add-on camera.

Then there's Recon Instruments' MOD Live which at \$400 (around ₹20,000) promises to be a pretty powerful, GPS-based micro-fiber optics display that, once snapped onto a pair of compatible goggles, can connect via Bluetooth to an armband-mounted controller for the head-up display (HUD). Targeted specifically at skiers and snowboarders, the MOD Live can report real-time speed and jumping statistics and even map your trail route right in front of your eyes.

And while manufacturing and medical sectors are often cited as prime candidates for AR applications, there are presently a select few companies selling HUDs for much more varied purposes. For instance, take Brother, primarily a printing company, who in August 2011 announced the commercialisation of AiRScouter, a see-through type, head mounted display. The goggles use a single display design with a translucent LCD on top of the wearer's left eye. It can support information superimposed over the wearer's actual view. While stating that it's a "versatile technology



**Participate in Digit Survey**  
Win exciting Cooler Master products Flip to **Page 2**

## Nokia Mixed Reality concept

Check out the video of Nokia's Mixed Reality concept glasses

<http://dgit.in/nokiamixedreality>

From the labs

with numerous possible applications" AiRScouter is focused primarily at uses like assembly support in factories and are already available for sale in Japan.

If you thought that Google doesn't really have competition from these small-time companies, think again. In 2009, Nokia had released a strikingly similar concept video named "Nokia Mixed Reality" featuring gaze-tracking eyewear to browse and select with your eyes. Just like the Google video, it showed a day in the future, in which one could interact with people and devices in innovative ways. What it's doing with this invention today no one knows.

Last year, Sony demonstrated "Smart AR", a system it wants to integrate with its future gaming devices. It could, in the times to come, allow characters to appear on tabletops or respond to the movement of real objects or even build a rough 3-D map of a room.

How can we not mention Oakley, whose Thumps was said to be the inspiration for Project Glass. Right on the heels of Google's unveiling, Oakley announced that it too has been working on a similar technology since 1997. It's targeting sportspersons for starters and in the process of creating a self-contained unit that can communicate with smartphones. In its announcement, the company stated that the initial versions of such a product wouldn't be cheap while agreeing that the



iWear VR920 augmented reality glasses by Vuzix, in production since 2009, via Vuzix Store

"technology barrier to success is significant".

Since Google's announcement though, Oakley is not the only company to express similar plans. NASA recently announced its plans to make AR-enabled HUDs that would allow pilots to see through fog, and show flight info such

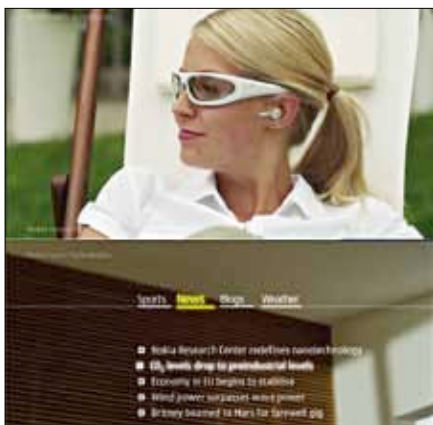
as airspeed, altitude etc. right in front of the pilot's eyes. America's DARPA who is already working on AR glasses for the battlefield, went one step ahead and announced investment into making prototype contact lenses with AR capabilities.

### The skepticism

Looking at all the similar ventures already out there may make Project Glass look like a borrowed idea. But skeptics don't stop there. There are huge gaps in where the current technologies are and where Google is hoping to reach soon.

The lack of full lenses and the small, rectangular piece of glass hovering over the user's right eye raise the question as to how exactly wearers would be able to receive data over their entire fields of vision as the video seems to indicate. Also, practical doubts about making such an object almost omnipresent in society are just starting to roll in. Be it while talking to someone or driving down the road, if you're allowed to flip through graphical, textual or audio content, or even take pictures without anyone's knowledge, how safe and private our society would remain is a pressing question.

Seeing augmented reality tech being researched and adopted on such a scale compels us to arrive at the conclusion that Google is just hopping onto the AR bandwagon (and not too quickly either). Let's not forget though that the way Google has imagined the applications and uses of this very technology are far more immersive, impressive and exciting than those before it. It's the same way that Apple packaged mostly existing tech to give us the all new iPad. What Google is trying to do is add onto the existing technology to make it work for us like never before. **i**



Nokia's concept glasses and hearing aid



**ba11**  
Your eyeball view. Our technology new.

*Tuned*  
for Indian Skin Tone




**C12.0**

- 1.3M pixels (Interpolated 12M pixels still image & 2M pixels video resolution)
- High quality 5G wide angle lens
- 6 LEDs for night vision, with brightness controller
- Built-in high sensitive USB microphone
- Snapshot button for still image capture
- 4X Digital zoom and Auto Face Tracking Function



**FACE2FACE**  
WEB CAMERA

[www.iBall.co.in](http://www.iBall.co.in) | Over 25 million iBall products sold

**Best IT World (India) Pvt. Ltd.:** Email: [sales@iball.co.in](mailto:sales@iball.co.in)  
**Mumbai** - 022 - 6774 5100 / 3081 5100 / 9820723393,  
**Ahmedabad** - 079-2743 6373, **Bangalore** - 080-4124 3646,  
**Bhubaneshwar** - 0674- 329 7372, **Cochin** - 0484- 220 7141,  
**Chennai** - 044- 4216 8561, **Dehradun** - 0135- 324 4481,  
**Guwahati** - 094357 31463, **Goa** - 095453 11812,  
**Hubli** - 0836- 227801, **Haryana / Himachal** - 87500 76813,  
**Indore** - 0731- 404 2509, **Jaipur** - 0141- 313 0340, **Kolkata** -  
 8017518545, **New Delhi** - 8860080580, **Lucknow** - 0522- 400  
 5840, **Ludhiana** - 09316065255, **Nagpur** - 0712-325 3811,  
**Nashik** - 095526 04485, **Pune** - 093723 37753, **Patna** - 0612-  
 326 0947, **Raipur** - 0771- 329 3674, **Ranchi** - 0651- 324 4199,  
**Secunderabad** - 040- 2789 4847.



**This app encourages hate**

EnemyGraph pushes Facebook users to list people, places or things they dislike and share them with the like-minded <http://dgit.in/HoiFJO>

**Facebook app for India**

Facebook's feature phone app, available for Java-enabled phones, now supports Hindi and seven other Indian languages <http://dgit.in/Ij5sFx>

# How the iPad cover works

## Peek-a-boo, I see you

A close look at how the iPad smart cover works



Flipping open the Smart Cover even slightly wakes the device up

Sameer Mitha  
[readersletters@thinkdigit.com](mailto:readersletters@thinkdigit.com)

**S**o you just picked up a brand new iPad (second or third generation) and decided to add a Smart Cover to the mix. If you thought it was magic that made the device go on and off every time you open/closed the cover you're in for one major shocker!

The Smart Cover – available in leather and polyurethane variants – looks really thin and feels really nice in your hands.

The portion of the cover that touches the screen has microfibers that help protect the screen from dust and scratches. The cover folds and doubles up as a stand that holds the iPad upright. The smart cover also folds up into a stand that tilts the iPad at an angle enabling ease of typing. If you like to hold the iPad, the smart cover can flip back the same way in which you would fold a magazine. If you want to use the rear-facing camera of the iPad, the smart cover can be folded in half to

expose the camera for use. You really don't need to separate the smart cover from the device as you would with other third-party covers.

If you thought these reasons are enough to call the smart cover “smart” think again. It also wakes up and puts the



You have 10 different colours to choose from

device to sleep when opened and closed. The technology behind the smart cover can be summarised in one word – magnets. There are an astonishing 21 magnets in the smart cover and 10 long slim

magnet strips in the iPad. The long magnets on the iPad hold the smart cover on the device firmly, with the cover's magnets clipping to the left side of the iPad. Since the right side of the cover doesn't have any hooks, it sticks to the screen thanks to the magnets in the device and the cover.

What the right side of the device does have is a sleep/wake sensor. This sensor interacts with the magnets when the smart cover is put or removed.

As mentioned earlier, the cover also folds and doubles up as a stand. Four of



Also turns into a good stand for better typing/movie viewing experience

the strips on the front of the cover fold up to make the stand. On the rightmost strip of one of these strips, there are 15 magnets that stick to a steel plate. This rests in the leftmost strip to form the triangular shape

used to create a stand. This ensures that the bond is strong when the cover is folded and supports the weight of the iPad.

Natively, the first generation iPad isn't compatible with the smart covers as the idea of the covers was conceived with the iPad 2. As for the third generation iPad, the iPad 2 sleep/wake sensor isn't polarity specific whereas the new iPad is. This means that for some, your old smart cover may not work. It seems Apple rectified this issue with some of the later launched smart covers (making them polar specific). These covers work on the iPad 2 as well as the new iPad. If you're wondering whether your smart cover works on the third gen iPad, we'd say take it to an Apple store near you and give it a try to find out!

# worldview

OUR PICK OF THE BEST TECH ARTICLES FROM AROUND THE GLOBE

## (MUST READS)



### HOW REDDIT SPAWNED A BLOCKBUSTER

With just a handful of posts about a hypothetical time travel scenario, where marines would go head on with Roman soldiers, James Erwin went from web commenter to professional screenwriter. Here's the story: <http://dgit.in/ldlBev>

### DO WHAT YOU LOVE

Can work ever be fun? Every now and then we point you to a non-technology oriented article. Here's one such write-up <http://dgit.in/lfiT9u>

### WHY IVY BRIDGE IS STILL QUAD-CORE

AnandTech explains how Ivy Bridge is a die shrink of Sandy Bridge and that usually means either the core count or frequency is increased due to the lower power consumption of the smaller process node <http://dgit.in/lZ6G52>

### BATTLE FOR THE INTERNET

Last month, The Guardian ran a special 7-day feature called the "Battle for the internet." It explores the challenges facing the dream of an open internet <http://dgit.in/lc9kZH>

## (Wired Corner)

### WHEN TO IGNORE WEB MEMES

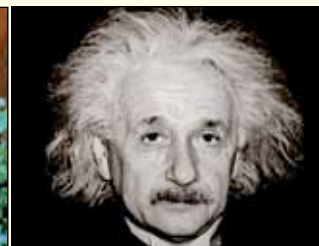


In today's day and age, if you don't look/listen/watch and keep track of web memes, you're on the outside of an inside joke. But it's important to know when to opt out <http://dgit.in/JbJR3G>



#### Y U NO make retina displays?

Samsung, an Android ally and one of Apple's largest competitors in the mobile space, is manufacturing the new iPad's retina displays. So why not have such dazzling screens on its own devices? <http://dgit.in/JfGdoD>



#### Cultivating genius in the 21<sup>st</sup> century

Human geniuses aren't scattered randomly across time and space. Instead, they tend to arrive in tight clusters. Is there a method to creating more? Read on... <http://dgit.in/JflqQN>



#### Get in shape for the Apocalypse

Alternate reality game-cum-fitness app "Zombies Run!" puts runners directly into a zombie apocalypse. Find out what makes it work <http://dgit.in/JWyy12>



**ZUCKERBERG IS  
CEO B\*\*\*\***

Facebook's acquisition of Instagram is said to have been pursued by Mark Zuckerberg alone. Board members were notified only hours before the deal was set to close. Here's how the billion dollar deal happened <http://dgit.in/JcqMya>

**WORLD'S TOTAL CPU  
POWER: ONE HUMAN  
BRAIN**

Researchers have tracked changes in 60 different analog and digital technologies, from newsprint to cellular data, for a period of over 20 years <http://dgit.in/lHqrAl>

**RAIDERS OF THE LOST  
ARCHIVES**

The creator of Ubisoft game franchise *Prince of Persia*, Jordan Mechner, found an old floppy with the original source code written in 6502 assembly language on it. Now it's being made Open Source. Read on for the full story <http://dgit.in/JWULWo>

**THE CREEPIEST APPS  
AND SITES**

A look at five apps that severely infringe on what constitutes privacy in the digital era. These apps crawl social networks, download images and fetch location data of their intended targets <http://dgit.in/JhhvSe>

SHORTS

## Who Owns You Online?

Your data is your digital replica but it may not be your own

- By Chandra Steele



Copyright © 2011  
Ziff Davis Publishing  
Holdings Inc.

As dispassionate as it sounds, a person's data is their digital replica. Though there are thousands of traits that make someone unique, a binarily-coded identity is the only verifiable one, making it arguably the most lasting and meaningful. As the singularity gets nearer and nearer, technology could conceivably be responsible for the legal definition of personhood being extended, and therefore, the protection of our digital selves is of immediate concern.

Jotting down thoughts, speaking a few words, (<http://dgit.in/JwPXav>) and just taking a drive (<http://dgit.in/lloFFx>) are no longer ephemeral activities, they're defining ones.

"I think the format of [social media] makes sharing feel contagious and it normalizes a level of self-involvement and transmission of details that would previously have just been considered weird," says Ari Melber, correspondent for The Nation (<http://dgit.in/lZiFzL>).

How much control do we have over these pieces of ourselves, whether we've given them away freely or they've been snatched without our knowledge?

### Data

Data has always been made up of 1s and 0s but now those numbers fall behind a dollar sign. Facebook's valuation of nearly \$100

billion is built on little else but its users' data. (<http://dgit.in/lcpEWi>) Likewise, Google is an advertising company (<http://dgit.in/JvLFIO>) that's model relies on the input and monitoring of millions to earn the \$38 billion in revenue it took in last year, 96 percent of which was from ads.

Using Google's services entitles the company to "use, host, store, reproduce, modify, create derivative works,...communicate, publish, publicly perform, publicly display and distribute" a user's content in perpetuity, even after the user has disengaged from those services.



Terms of use policies for social networking sites, including Facebook and Twitter, frequently have similar wording that grants the companies, and to whom ever they decide to sell it, the rights to "IP content" (i.e., user photos, personal information, status updates, comments, etc.) in a "non-exclusive, transferable, sub-licensable, royalty-free, worldwide license" (i.e., that is the right to share in the use of and to sell the use of it, including for profit and without

payment) agreement. It's a policy that has led to people becoming pitchmen for things they'd rather not be associated with (<http://dgit.in/lOhHKj>) in Facebook ads.

"I think the line between technically, legally using people's information and stealing their content in ways they didn't knowingly consent to is a line that has more to do with perception than law," Melber says.

So while it may come as a surprise to many to discover their photos are popping up in ads across their network of friends, it's only the beginning of how their information is being used. Sponsored ads are also public, while the many other ways a digital identity is sliced, diced, packaged, and sold are not.

"They have what many would consider a very aggressive reading of their control over not only all of their users' content but also all of their ex-users," Melber says. "We've got a lot of companies here who not only don't allow you to opt out, but once you opt in, like Hotel California, you can never leave."

Terms of service can—and do—change frequently and without direct notification to users. To keep up to date on what they've signed up for, it's up to users to constantly check the terms of service on the sites where they share information. Continued use of the site, whether or not the users have reviewed the terms, constitutes agreement to whatever makes its way into the policies.

Melber mentions that some, such as Zipcar founder Robin Chase, (<http://www.robinchase.org/>) think the day may be coming where users are paid by sites like Facebook

## DIGITAL ECOSYSTEMS: AN IN-DEPTH COMPARISON

The Verge compares the services offered by six tech biggies (Amazon, Apple, Facebook, Google, Microsoft, Sony) and answers questions like “Does Google+ let you do more than Facebook?”  
<http://dgit.in/Jn24vo>

## ORACLE VS. GOOGLE



Two chief executives of the most successful tech companies squared off in court in person. New York Times reports on what went down in the first week of the hearing  
<http://dgit.in/HYcJsa>

## JUST HOW BIG ARE THOSE “OTHER” WEB SITES?

One would think web sites such as Facebook or Wikipedia are the biggest drivers of internet traffic, but ExtremeTech found another source: adult content. An in-depth survey reveals they account for as much as 30 per cent of the data delivered on the web!  
<http://dgit.in/I0ls2l>

## CONTAMINATING ALIEN WORLDS

A new report by Space Science Board urges extreme caution against infection when landing on alien worlds. And it'll be mankind that will be doing the infecting. Read more in the pdf report dug up by none other than Pop-Sci  
<http://dgit.in/JX4Thl>

to share their information. Chase isn't alone; at SXSW Interactive, Jaron Lanier, computer scientist and author of *You Are Not a Gadget: A Manifesto*, said, “Facebook should pay people for content that enriches Facebook,” according to BuzzFeed FWD.

## Ownership

The debate over compensation for data reinforces the notion that data is property, but who has responsibility for that property when more than one person “possesses” it is a point of contention. This formerly theoretical concern has become a very real one for those who lost their data (<http://dgit.in/JvIRHp>) in the fallout from the explosion of Megaupload.

Alex Lakatos, a partner of Mayer Brown's litigation and financial services regulatory and enforcement practice, highlighted some of the issues that can arise in situations like Megaupload's. For Megaupload users who are trying to retrieve their data, they'll first face the most basic question: Where is it?

“It's not entirely clear who actually has the data,” Lakatos says. “What the government is saying is, ‘Well, we just went in and made copies of stuff, so we don't actually have the data anymore.’ What Megaupload probably will be saying is, ‘Look, we told you in your contract to make your own copies of this stuff and keep it so you don't have any claim against us under contract.’ And then you've got a couple of third-party hosts for Megaupload.”

Even when that's answered, in any attempts to get that data back, users will have to contend with laws that were not written to deal with technology.

“There is precedent for using a writ of replevin—basically, a very old property claim that allows you to go to court to get back property that someone else has, but

to which you have a superior right, e.g., you left your bicycle at someone's house and they aren't returning it—to obtain e-data.” Lakatos cautions that even that could possibly be waived by Megaupload's terms of service.

## Reputation

No matter who is ultimately deemed the owner of data online, there's one thing that belongs to everyone and no one—reputation. It is completely in the eyes of the beholders and, perhaps no group knows this so much as over-scrutinized celebrities.

“Even with the greatest amount of control on one's profile, perception is still a variable no one can foresee,” says Raphaël Aflalo, co-founder of celebrity brand reputation management company My Love Affair (<http://www.my-loveaffair.com/>). “In many cases and particularly for public figures of the entertainment world, there can be a great amount of distortion between the content provided by a celebrity on his own channels and his online identity as the public perceives it online.”

Aflalo stresses that reputation extends beyond the boundaries of a celebrity's own brand. “A celebrity's online reputation is also widely connected to its possible partners,” he says. “When it comes to picking the right partnering brands, whether for a sponsored post on Facebook or a 360-degree endorsement campaign, we have to make sure that the partnership makes sense and that the artist's online profile will not be harmed by a wrong choice of partner.”

This blurring of the boundaries of online identity and its ownership has been extended to the not-so-famous by employers and university athletic departments. Teams and schools are nervous about putting the reputations of their multimillion dollar pro-

grams in the hands of college students. To head off hits they might take, some are hiring “defense” companies that monitor the social media use of their athletes, such as UDiligence, Varsity Monitor, and CentrixSocial.

Going beyond keeping track of what's already public, these companies have access to the students' accounts to assess what



might harm a program's reputation if it got out. On UDiligence's What We Find page (<http://dgit.in/I3yDhz>), a rotating banner displays NSFW images culled from the social networks of athletes identified by sport and conference at schools it says “are not yet” its clients. Adherence to a program's policy is often a requisite to play on the teams of schools that use the services. Players generally share basic information, “likes,” photos, videos, events, check-ins (including those of friends), and details about family members and friends.

It might seem extreme, but consider that brands, which may have invested in how they're represented, also face the dilemma of a dual online identity. Read more of the article here: <http://bit.ly/FPM14E>



## HOW QUIRKY ARE YOU?

Mavericks from the Engadget exodus, Joshua Topolsky, Nilay Patel, and Paul Miller create TV... er, web magic with



their new show On The Verge. Currently in its fourth episode, and filmed in front of a live audience, the show features interviews from bigwigs of the technology world and takes a quirky look at all things geeky  
<http://www.theverge.com/on-the-verge>

## (QR Code)



For a list of all the links from this section, head over to <http://dgit.in/WorldViewMay2012> Or point your phone to the QR code above

## (PRODUCT LAUNCHES)

### ASUS G55VW GAMING LAPTOP



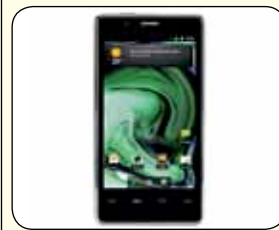
This bruiser of a machine sports a quad-core i7-3610QM Ivy Bridge chip with 2GB NVIDIA GTX 660M graphics over 12 GB of DDR3, 1,333MHz RAM and a 750GB HDD. This high-end system will set you back by \$1,475

### NIKON D3200



A 24.2MP successor to the D3100, aptly called the Nikon D3200. Powered by the EXPEED 3TM image processing engine, the Nikon D3200 is called a HD-SLR by the company, with 1080p HD video recording (30 fps) with full time autofocus. Will set you back by around ₹37,000

### LAVA XOLO X900



The first Intel Medfield powered Lava X900 was globally launched in India sporting a single-core 1.6GHz Atom Z2460 processor, 4.03-inch touchscreen, Android v2.3, an 8MP camera and 1GB RAM. It is expected to retail at around ₹22,000 and more affordable options are expected soon

## WORDJUMBLE

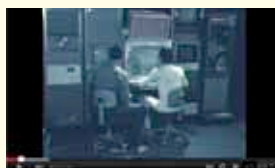
S	I	W	B	E	R	A	W	L	A	M	N	V	N	A
L	M	I	R	Y	K	S	S	E	R	V	E	R	H	T
J	S	C	R	E	E	N	C	L	I	E	N	T	F	O
C	Z	N	O	I	S	S	E	R	P	M	O	C	G	M
Q	A	H	Y	R	E	T	T	A	B	X	M	X	A	I
G	N	I	G	G	A	T	O	E	G	U	E	R	S	C
N	A	E	L	O	O	B	L	L	A	W	E	R	I	F
W	F	U	B	Y	C	N	E	U	Q	E	R	F	I	C
A	I	E	D	O	C	I	N	U	E	D	X	T	X	H
S	C	X	F	W	E	N	C	R	Y	P	T	I	O	N

ABSOLUTE  
TIMEPASS

Believe it or not, there are tech terms hidden in this word jumble.

## Top 3 YouTube Picks

Make sure your boss doesn't catch you goofing off with one of these playing on your screen



### Animation in the 70s

Duration 7 min, 45 secs

How cutting edge animation was created back in 1971  
<http://dgit.in/>



### Whistle-blowing at its best

Duration 19 min 34 secs

Julian Assange discusses how the site operates  
<http://dgit.in/l2dhlD>



### A perfect bicep curl

Duration 3 mins 11 secs

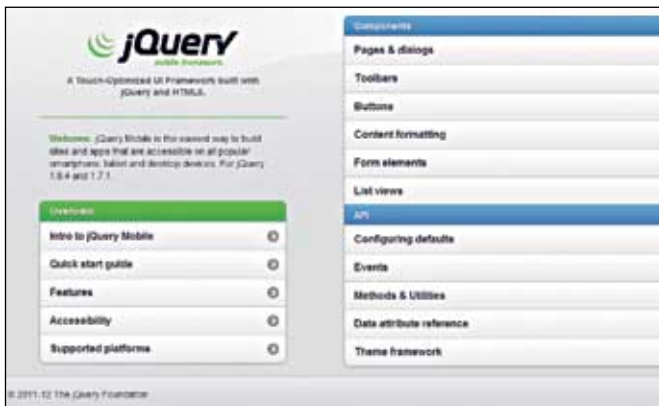
Sensors guide this man to do a bicep curl with good form  
<http://dgit.in/JYJh4H>



Interview with  
Shabir Momin, creator  
of ZengaTV. Go to  
pg. 56. For complete  
interview visit:  
[dvwx.in/may-12-smz](http://dvwx.in/may-12-smz)

> code / creativity / community >

# devworx >



## jQuery Mobile 1.1.0 released...

jQuery Mobile is a powerful jQuery-based framework for building websites for mobile devices. It is quite impressive in that it allows one to create a fully interactive experience with integrated Ajax support, navigation theming etc. without writing any code at all. Rather one can build quite powerful interfaces using just HTML5 with information about the

presentation and interaction added as data attributes.

The latest release of jQuery Mobile 1.1.0 brings a number of improvements to the framework, particularly in the areas of toolbars and animations.

With this release, jQuery Mobile uses the much more elegant position:fixed CSS property to enable fixed toolbars rather than the older

buggy JavaScript-based solution. While this new approach doesn't work on all platforms — that was the reason it wasn't implemented this way in the first place — a fallback to the old method is provided as an optional extension.

The way page transitions are conducted has also been revamped, and the new method is now much smoother and faster. One thing the jQuery Mobile developers have made quite clear is that the performance of transitions on Android is abysmal, and there isn't much that can be done about it. As such only newer Android platforms (3.x and 4.x) will support the bulk of the transitions, older Android versions will get a simple fade effect, no matter which effect is specified. Two new transitions, "Turn" and "Flow" have also been added. >

Read the entire feature on jQuery Mobile 1.1.0 at <http://dvwx.in/Jx986Q>. Please share your comments on our Facebook page.

### \*side panel



#### \*Amazon CloudSearch

>> Have a very powerful and scalable search system, including indexing and retrieval, up and running in under an hour.

<http://dvwx.in/may-12-1>

#### \*Sneak Peek at Send to Ubuntu One

>> Send to Ubuntu One, is a button you can insert on your website. Once done, users simply click on it and it instantly delivers the content from your website to their Ubuntu One accounts.

<http://dvwx.in/may-12-2>



#### \*Preview web workflows in iOS and Android

>>Shadow, a new inspection and preview tool allows simplifies customisation of websites for mobile devices. This way, front-end web developers can work faster.

<http://dvwx.in/may-12-3>

### \*footer

#### \*Responsive Web Design: Missing the Point

>>Alex Mangini touches an important subject of responsive web design and what it means. In this short post on the hype over deploying mobile editions of a basic web page for each device in the market, there's certain reason for a rethink on your digital strategy according to Mangini. Read more at:

<http://dvwx.in/may-12-4>



#### \*Snapdragon developer program

>>The Snapdragon Developer Program gives you the inside track with mobile device manufacturers and wireless network operators looking to deliver new and differentiating app experiences to consumers. Go to:

<http://dvwx.in/may-12-5>

#### \*Prince of Persia Source Code — Posted!

>>Video game source code is a bit like the sheet music to a piano sonata that's already been performed and recorded. As a performer, if you have the recording, you'd probably wonder if you still need the sheet. Nevertheless, for those who want to study or arrange it for different instruments, the original score is valuable. Similarly, the source code for a game could be used in newer designs. More at:

<http://dvwx.in/may-12-6>



For latest news, updates and features, join us on Facebook at [facebook.com/devworx.in](http://facebook.com/devworx.in)



# mosync

>Targeting all development platforms out there is getting increasingly complex. What we need is simplification> by Kshitij Sobti

Most app developers end up targeting only the major platforms while neglecting the others. This is precisely where cross-platform SDKs such as MoSync come in. MoSync features an API, and programming language that lets you target nearly every platform out there! Not only does MoSync support the major Android, and iOS platforms, but also supports BlackBerry, Windows Phone (with the newer Metro-style UI), as well as Symbian. Finally it supports the JavaME platform, thereby enabling MoSync applications to be deployed across most feature phones.

To enable web developers to reach all of these platforms, MoSync offers support for using web standards to develop mobile applications. This is in the vein of PhoneGap or Apache Cordova; where you create a web application, which then runs in a web browser embedded inside a native application. The web applications has access to a number of native APIs allowing it to behave for all intents and purposes as an application directly running on the platform. In fact, MoSync is compatible with the PhoneGap / Apache Cordova APIs.

MoSync goes a few steps ahead of Apache Cordova however, as it supports not only pure web-based applications, but also hybrid applications that bridge C++ / C with web code.

## Multiple Paths

As we mentioned before, MoSync offers multiple paths to developing applications. Depending on where you are coming from, you have different options. These aren't strict paths though, you have quite a bit of flexibility.

On one side you have native path, using C / C++. If you are porting from desktop to mobile, chances are some of the code in is C / C++, and MoSync will let you reuse that on mobile.

On the other hand, if you already have a web application, and want to bring that to mobile, the HTML path is open to you. MoSync will not only allow packaging and running web apps as native mobile apps, it will also let you use the kind of API that normally a web app would not have access to. For example, your web application can access the camera of the device, the compass, the calendar, the contacts and much more.

A third option is to go for a hybrid application which uses both web and native code. This is very useful if you wish to have a rich UI developed using web standards, while the power-hungry aspects of the application, such as image / audio processing can be handled in native code. Of course you can start by porting your web app to MoSync and incrementally replacing performance-intensive code with C / C++ code. Likewise one could port in the functionality of an existing desktop application as C / C++ code and add an HTML interface on top.

Even among these paths you have multiple options. For example, your C / C++ application could either be pure C / C++ code, or it

could use the NativeUI features that MoSync provides — more on NativeUI later — or it could use OpenGL. Likewise, an HTML application could also use either a web UI or a Native UI.

## NativeUI

One of the features that are quickly lost when you consider a cross-platform toolkit is the ability to have a native-looking, native-feeling UI. While cross-platform does mean that you can have the same look and feel for your application on all platforms, this isn't necessarily a benefit.

While keeping the same UI across platforms might make it easier for people to switch from one device to another; it could come at the cost of making it difficult for people to switch from one app to another. While a person is using an app on a phone, they expect it to look and behave in a manner that is consistent with the platform. The minor advantage of offering a consistent UI across platforms is trumped by the major advantage of a consistent UI within the platform.

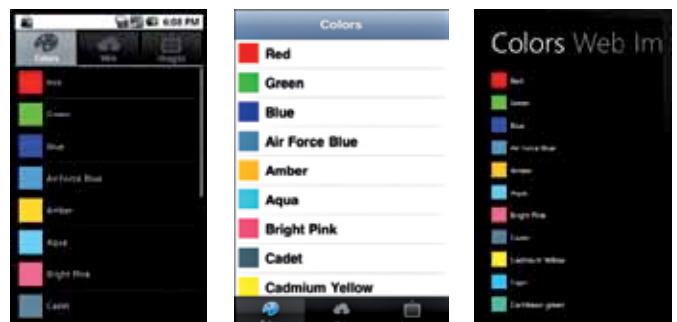
Many cross-platform toolkits offer a solution for this, and in the case of MoSync, we have NativeUI. NativeUI allows one to use a single API to create applications for Android, iOS and Windows Phone 7.

The NativeUI API features a number of widgets that can be used to create a cross-platform UI. Depending on which platform the application is targeting, the same UI code can look vastly different. MoSync allows you to code based on uniform API, but the end-result is rendered on each platform using their native UI representations.

Let us take a look at a snippet of code from one of the example applications that ships with MoSync, NativeUIDemo:

```
mColorScreen = new ScreenColorList();
mWebScreen = new ScreenWebView();
mImageScreen = new ScreenImageSwiper();
this->addTab(mColorScreen);
this->addTab(mWebScreen);
this->addTab(mImageScreen);
```

Here the ScreenColorList, ScreenWebView, and ScreenImageSwiper classes are the three “tabs” or screens in this application



The same code base, rendered on Android, iOS and Windows Phone

that are defined separately. They are then added as tabs to a tab view which automatically translates the appearance of the tabs depending on the platform. This tabbed view itself will be added to the main view of the application.

This code will work on both Android and iOS — a slightly modified version is used for Windows Phone 7 — but will follow the native platform's conventions.

The same functionality is represented on each platform using the platform's native interface elements. While we showed C++ code for using these native widgets, it is also possible to use these widgets if you use the web programming route. There are two ways to go about this. You can either create widgets using a JavaScript API, or declaratively create the UI using HTML. The following is an example of creating a UI with JavaScript:

```
var myButton = mosync.nativeui.create("Button",
"myButton", [
    "text" : "Click Me!",
    "width" : "100%"
]);
```

Even if this widget is definitely declared in HTML, it will be translated to native code and will look different depending on platform.

The disadvantage when it comes to using the NativeUI is that it is only supported on the three main platforms, iOS, Android and Windows Phone 7. For other platforms, there is the option to use MoSync's alternative widget framework called MAUI, which includes non-native widgets that look the same on all platforms. An application can use Native widgets for the platform that support it, and non-native ones for the platforms that don't.

### MAUI and MoRE

For platforms such as Symbian, Moblin, JavaME and Windows Mobile, you do not have the option to use the NativeUI widget framework. There instead you can use MAUI, a platform-independent UI framework included in MoSync.

A small example of how one might create a button using MAUI:

```
MAUI::WidgetSkin* buttonSkin = new
MAUI::WidgetSkin( SELECTED_IMAGE, UNSE-
LECTED_IMAGE, X1, X2, Y1, Y2, SELECTED_
TRANSPARENT, UNSELECTED_TRANSPARENT);
myButton = new MAUI::Label(LEFT, TOP,
WIDTH, HEIGHT, parentWidget, "Click Me!",
COLOUR, FONT);
myButton->setSkin(buttonSkin);
```

Here we are first describing a skin for the button, which includes the images for the button when selected and unselected, information about how the image fits on the button, and whether the images are transparent. Then we are defining the button itself, and finally we are applying the

## \*pointers

>>Nuggets of cool code at work



### \*Android application development for beginners!

>>For those of you who requested tutorials, here's a series that begins with the bare basics! > 04:55

<http://dvw.x.in/may-12-p1>



### \*Game programming with GWT

>>Learn to write 2D and 3D games using HTML5 and GWT, leverage and port existing games, and publish to the Chrome Web Store. > 44:59

<http://dvw.x.in/may-12-p2>



### \*Windows 8 and HTML5

>>With a swipe of your finger, you may be able to launch Windows programs and navigate through the vast majority of new Web-based apps. > 03:02

<http://dvw.x.in/may-12-p3>



### \*Objective-C tutorial

>>If you want to develop for the most popular app platform out there, you need to be familiar with Objective-C. Be it the iPod Touch, iPhone or iPad, Objective-C is your way to go. Here's a tutorial for absolute beginners.

Duration > 06:27

<http://dvw.x.in/may-12-p4>

button skin to it. This widget will look the same on all platforms.

MoSync supports emulating applications the emulators that ship with their respective SDKs, the Android emulator, the Windows Phone 7 emulator and the iOS simulator for example. However it also ships with an application called MoRE, which is a simulator for MoSync applications. Unlike device emulators, which have multiple layers, first emulating the device hardware, and then running the OS on top of that, MoRE simply runs the applications directly, so it starts quickly and performs better. However MoRE cannot be used with applications that use the NativeUI and some other features.

### Web UI and Wormhole

MAUI isn't the only way to have a mobile application look consistently and work across all platforms. The other option is using web technologies as the frontend of your application.

Using standard web technologies such as HTML, CSS, and JavaScript one can create powerful UIs. As mentioned before, MoSync exposes native platform features such as the camera, compass etc. to web applications so they are not feature-restricted.

We also talked about how it goes a step ahead by allowing one to mix and match native and web code. MoSync includes a technology called Wormhole that allows you to bridge between native C / C++ code and JavaScript web code. The C++ Wormhole library allows one to write C++ code that can be invoked from JavaScript. For example, one could write an image filter or an audio processing algorithm in C++ which could be used by the JavaScript code.

### Conclusion

While we have covered different approaches to creating the UI, Native UI, MAUI and web-based UI, you needn't use just one. You can mix and match as desired.

As you can see MoSync is a powerful SDK and should be in the radar of anyone looking to create applications that need to run on multiple platforms. It is very flexible, with a broad feature set that is supported on an even broader set of devices.

Not all features are available on all platforms, that is true; however, it still promotes a large amount of code-reuse.

All of this of this is possible in MoSync via a single SDK. MoSync even offers an Eclipse-based IDE for working with their cross-platform SDK, supports testing using emulators for iOS, Android and Windows Phone, and includes a simulator for quickly testing apps. Oh, and did we mention that all this — the SDK and the IDE — is free and open source under the GPL. >





**>>“we support the largest number of devices out there”>>**

>>Shabir Momin, creator of ZengaTV, a mobile streaming platform

**>> What's unique about Zenga TV?**

Zenga is unique in the sense that it works on cellular networks that comply with 2.5G and higher standards. We also the biggest bouquet of content, which is free. Besides, you don't need to download an app in order to enjoy services offered by us. Zenga supports the largest number of handsets, and it also works on Symbian S40 devices as well.

**>>Would Zenga manage to stay unique with the advent of 3G services in India?**

Consumption of content will be better with 3G. Since we support streaming on 2G, services will be unaffected. Also, data is far more affordable over 2G networks. We have the largest user base and our unique technology and good content combination being free will continue to be a winner.

**>> What led you to start Zenga TV? Tell us a bit about the business.**

We believe video is here to stay, and would continue to grow for at least the next 10-15 years. We thought of getting into video only if we could build a technology that could deliver at very low bandwidth. It is after considering these factors that we launched our services.

**>> How do you compress videos to level sufficient to stream them over 2G networks?**

We have our own technology and we have the capability to compress and enhance the video at the same time to be able to stream even at bandwidths as low as 20kbps.

Read the entire interview online at [dvw.in/may-12-smz](http://dvw.in/may-12-smz). Join us on [fb.com/devworx.in](http://fb.com/devworx.in) and share your comments.

## \*from the shelf >> suggested reads, that you could consider buying, to augment your skills



**Sencha Touch Cookbook**  
<Price> ₹2634

>>This book is ideal for you if you want to gain insight into the Sencha Touch

framework to make apps for mobiles.  
<http://dvw.in/may-12-bk1>



**Building Windows 8 Metro Style Apps with HTML5 & JavaScript**  
<Price> \$23.17

>>Microsoft Evangelist Jaime Rodriguez guides

developers through constructing a real Windows 8 Metro app from start to finish, using expert techniques and Microsoft-recommended coding patterns and practices.  
<http://dvw.in/may-12-bk3>

### Disclaimer

>>These book recommendations are purely suggestive. We have no allegiance with any publisher, service proere are compiled at the time of going to print. If you want to recommend an interesting book to the developer community, please write to us at [editor@devworx.in](mailto:editor@devworx.in)



**Building the Realtime User Experience**  
<Price> ₹1,468

>>This book shows you how to build realtime user

experiences, and including more features on your site one piece at a time.  
<http://dvw.in/may-12-bk2>

### App developers, write to us!

>>We want to hear from you. Whether you're an independent app developer or are part of an app development company, write in to us and tell us about your work. If you're innovative and above the crowd, we could have opportunities for you! You're only limited by your imagination. Write to us at: [editor@devworx.in](mailto:editor@devworx.in)



**HTML5 for Masterminds**  
<Price> \$16.48

>>After reading this book, you will know how to structure your documents

with HTML5, how to style them with CSS3 and how to work with the most powerful Javascript APIs.  
<http://dvw.in/may-12-bk4>

## \*distro dose



### Gentoo Linux

>>Gentoo is based on the Portage package management system. Users need to locally compile source code for the software they intend to use with Gentoo. As a result, Gentoo claims to be a meta distribution owing to its significant adaptability:

<http://dvw.in/may-gentoo>



### Ubuntu 12.04

>>Undoubtedly the most popular desktop Linux distro available today, Ubuntu has evolved through the years. Having migrated from Gnome to its own desktop Unity, regular updates by Canonical have taken it a long way. To try out Ubuntu, go to:

<http://dvw.in/may-ubuntu>



To stay updated with the latest news and features, join us on Facebook by scanning the QR code with your smartphone.



Prefer 140 characters?  
Follow us: @devworx.

Drop kiddo off for his karate classes. Now, is that the second left or third?

Pick up birthday gift for the wife. Now, where is this Palladium mall, exactly?

Drop off a colleague after business dinner. Damn, the roads look so different at night.

**WHERE DO YOU WANT TO GO?**



Via Series starts @ ₹ 9,999/-

Simply go wherever you want to go, without stopping for directions or getting lost. Just enter your destination and get turn-by-turn voice prompts, all the way to your destination.

Trusted by over **55 million** car owners worldwide, TomTom, **Europe's #1 GPS car navigation solutions**, is now available in India. TomTom brings with it, a large user friendly touchscreen, award-winning software and the most up-to-date maps\*. It also includes safety features like the Help Me menu and hands-free calling to help you navigate faster, smarter and easier.

The only question that remains is - **Where do you want to go?**

\*With a free Map Update Service for one year.

**TomTom India Pvt. Ltd.** | Website: <http://www.tomtom.com> | Email id: [sales.india@tomtom.com](mailto:sales.india@tomtom.com) | Toll Free Number: **1800 1234 123**

**TomTom Reps:** **North:** Chandigarh, Punjab, H.P. and J&K - 9779006656, Delhi & NCR - 9971779779 / 9971477000, Haryana - 9971779779, Rajasthan - 9414070360, U.P. (West) - 9971477000. **West:** Gujarat - 9173283828, Mumbai - 9702263001, Nagpur - 9766589684, Pune - 9890703322. **South:** Bengaluru - 9964377733, Chennai - 9840406073, Kochi - 9995201156, Hyderabad - 9908489083.

**Authorized distributor:** Supreme Audiotech Pvt. Ltd. - 9958935111

Authorised retail partner:  **Reliance Autozone**



**Zero1 Awards Distribution**

Team Digit goes on a road trip to congratulate winners of our Zero1 Awards story of 2011

**LED monitors compared**

We compare over 20 monitors from a variety of vendors to tell you the best one for your needs



# FIND YOUR WAY

A little dollop of reassurance when driving down an unknown road

Vishal Mathur

readersletters@thinkdigit.com

It is true that we all get lost sometimes, trying to find our way to a destination we have never been before. Some drive on for hours even if it is in circles. Some just roll down the window and ask the nearest pedestrian or passers by. Mostly, you will find the destination, but with a bit of riff raff along the way.

The alternative is a Personal Navigation Device (PND), which combines a GPS and Voice Navigation into one tiny device.

**IT'S A GUIDE**

Ideally, these devices are meant for use as a guide, and not as a hard and fast rule to go exactly where they are suggesting. If

you are ever relying on the navigator to get you through paths unknown, keep your eyes peeled on the road, and all the possible drivers' senses activated. The reason why a GPS device may lead you into trouble are because of two reasons. Either the map for that region is outdated or mapping errors.

**RISE OF PND**

Over the years, the PND as a device has grown within its primary role as a navigator. Map quality, primarily, has improved massively. Case in point being the introduction of 3D maps on most devices. You can also customize how the map looks on your device - points of interest (POI), street names, etc. In addition to that, most devices allow

you to change the voice of navigation. Not only limited to male and female, but also to local languages if supported on the device. Traffic updates as well as speed trap guides are some additional features that navigation devices are deploying globally, but they aren't available here.

**BUILD QUALITY**

Devices up to ₹12,999

The PNDs have a relatively similar look - the same display with a clean bezel, most hardware keys and ports on the side panels and a clean back to enable the attachment of the windshield mount. Let us start off the most inexpensive navigator in this comparison, the SatGuide 4.3 Navi with Entertainment. The combination of black and silver around the bezel looks

very classy. Most of the ports are on the left side spine - 3.5mm, microSD slot, and the Mini USB port. Flip the device over, and a black finish that has a tad bit of self-imprint on it will greet you. The speaker is clearly visible on the bottom left. It takes considerable effort to take out the stylus, since the chamber seems a little too snugly fit for it. This navigator seems well-put together and definitely looks more expensive than it is.

From the same family - the SatGuideNavi 5.0 with Video, you get design elements and finish very similar to the one in the smaller sized sibling. Except there is more of it in this case! However, the Navi 5.0's build quality is certainly a notch above the sibling, and no wonder considering the

## Bazaar

Check out reviews of some of the best products launched last month and whether they're hot or not



## Helium and cameras

Project Aether, setup in Alaska has been launching balloons into space. Check out the footage at <http://dgit.in/I9L7Xq>

## GPS Comparison

higher price tag. The Navi 5.0 has done very well in our design and build quality ratings, and is neck and neck with the MapmyIndia VX140, which is ₹1,000 more expensive.

MapmyIndia's RoadPilot is the next device in line. It looks like a military grade device, since the highly rubberized feel adds a whole lot of solidity to it. The bezel around the display is clean, but all ports are on the right spine - 3.5mm jack, SD card slot and Mini USB. Compared to the Satguide 4.3 Navi, the RoadPilot is compact yet thick.

MapmyIndia RoadPilot II Premium does not look anything like the lesser-priced sibling! Around the display is a dual toned finish - black and grey. The grey then runs throughout the device. No rubberized finish here, which is why the RoadPilot II Premium feels slimmer. The microSD slot is on the right side panel, while the Mini USB port is on the bottom, at one side. It feels slightly cheap in some places.

There is no denying the Primo GPS PG400X is possibly the shiniest baby navigator in this comparison test! The glossy black finish and generous use of chrome is a stand out. Overall, while well built, you will have to be careful that the PG400X doesn't get scratched.

The bigger Primo GPS device - the PG500X is an even glossier



MapmyIndia RoadPilot

package, so much so that we didn't dare leave it without the protective plastic layer once we had rated the build quality. From the front, you have the black bezel surrounding the display, with a chrome frame partly on the front and partly on the side. The rear panel is completely glossy black finish. The 3.5mm jack, TF card slot and Mini USB port are on the sides. Scratching it is a big worry.

When you pick up the MapmyIndia Vx140s Premium, you immediately realize its worth. Nicely rounded edges are enhanced by the bigger display size and has a classier rubberized finish. We think this has the most premium finish among all devices in this category.

The much-fancied TomTom Via 120 does come in with some really solid credentials from the experience people have had with it globally. The packaging of this device was by far the slimmest, its windshield mount integrated

on the device itself. A very neat idea. However, the implementation needs to be better. Speaking of the device itself, the two TomTom devices are by far the most unique looking ones in this bunch - power key on the back panel, no ports on the sides and the memory card slot in a tiny depression on the rear panel as well. The build quality is quite good, except that it loses out on points for power key placement.

### Devices above ₹13,000

Built a lot like the Vx140s, the Vx240 does have that classiness about it. Similarly built, albeit a bit thicker, the Vx240 feels completely worth the price you spend on buying it, in hand or on the dash. However, it is a bit of an in-between device mostly because it is priced too close to the next in line - Zx250. We believe that the Zx250 is by far the most premium navigator from MapmyIndia. In a nutshell, built very well and the warm grey finish looks classy. In this price bracket, the MapmyIndia Zx250 is by far the best-built device.

The bigger brother of the TomTom Via 120 is the Via 125, and the bigger display is still encased exactly like the Via 120.

### WINDSHIELD MOUNTS

We are tackling the issue of windshield mounts separately here, since they are a critical

element of the package that you will be paying for.

### Satguide& Primo GPS

The windshield mounts from Satguide and Primo GPS are almost the same, and a bit of a mixed bag. While it is a good idea to have to have complete flexibility in terms



TomTom VIA 120

of height and angle the device is at, in this case, the tightened screws get slightly loose after some time, particularly for the arm that handles the face angle of the navigator - after driving over some bumpy roads. While there is no risk of the devices falling off, you may need to tighten the screws every few days.

### MapmyIndia

Comes with an extremely solid windshield mount design throughout. It is also a two-piece setup, and literally no chances of things going wrong, since the one place where you tighten it won't ideally get loose. Fit the mount holder on the device.

Drop off a colleague after business dinner. Damn, the roads look so different at night.



Via Series starts @ ₹ 9,999/-

WHERE DO  
YOU  
WANT TO GO?

TomTom



LOW AND MID-RANGE CATEGORY - DEVICES UP TO ₹12,999						
Device name/ model number	Satguide 4.3 Navi with Entertainment	MapMyIndia RoadPilot	Primo GPS PG400X	MapMyIndia RoadPilot II Premium	Primo GPS PG500X	
Price (₹)	6,490	7,990	7,999	9,990	9,999	
<b>Test Scores</b>						
Performance	28.269609	29.98295455	27.13825067	29.12892665	27.71990289	
Features & Specs	24.04	24.08	24.68	23.12	25.12	
Design	5.6	4.6	5.8	5.8	6.3	
Final Score	57.909609	58.66295455	57.61825067	58.04892665	59.13990289	
<b>Display</b>						
Display Size (in inches)	4.3	3.5	4.3	3.5	5	
<b>Storage</b>						
Card type	micro SD	SD	micro SD	micro SD	micro SD	
<b>Maps</b>						
Preloaded India maps	Y	Y	Y	Y	Y	
3D maps	N	N	Y	Y	Y	
Address search	Y	Y	Y	Y	Y	
Voice Navigation	Y	Y	Y	Y	Y	
Voice navigation in local Indian languages	Y	Y	Y	Y	Y	
Unique Features (MapMyIndia has AURA reviews, for example)	-	-	-		-	
Cost of upgrading maps (Per update / annual)	₹990 per upgrade	₹990 per upgrade / ₹1250 for one year	Free upgrade for one year	₹990 per upgrade / ₹1250 for one year	Free upgrade for one year	
<b>Wireless Connectivity</b>						
Bluetooth	N	N	N	N	Y	
<b>Call Capability</b>						
Handsfree functionality for calls	N	N	N	N	Y	
SIM card slot	N	N	N	N	Y	
<b>Parking</b>						
Reverse parking sensor compatible	N	N	N	N	Y	
<b>Additional features</b>						
Picture viewer	Y	N	Y	Y	Y	
MP3 Playback	Y	N	Y	Y	Y	
Video player	Y	N	Y	Y	Y	
<b>The body matters</b>						
Dimensions (in mm)	112 x 74 x 12	98.5 x 78 x 17	114.3 x 76.19 x 12.7	98 x 77 x 12.9	134.6 x 83.8 x 12.7	
Weight (in grams)	198	141.5	150	117	170	
<b>Tests</b>						
Device startup time (full boot) in seconds	12.89	13.2	12.24	10.7	12.07	
Device startup time (from standby) in seconds	0.8	1.6	1.3	2.05	1.3	
GPS lock time (first time outdoor) in seconds	14.9	22.5	16.1	47.3	19.8	
Speaker audability (100% volume)	8	7.5	7	7.5	7	
Speaker audability (50% volume)	5.5	6	5.5	6	5.5	
Display visibility in sunlight (100% brightness)	5.5	7	5.5	7	6.5	
Display visibility in sunlight (50% brightness)	4.5	6	5	6	5	
Voice Navigation clarity	7.5	7.5	7.5	7.5	7.5	
Voice Navigation pronunciation	7	7.5	7	7.5	7	
Precision of driving on Route 1	6	7	6	7	6	
Precision of driving on Route 2	7	8.5	7	8.5	7	

Attach the mount arm into the first part, and tighten once you have set the angle. Now attach it. Takes a bit of time and trial and error for the right angle.

### Garmin

Probably the most solid looking mount that is single piece. Just dock the device on it and mount on the windshield. You don't need to spend any time setting it up! The navigator remains very stable on this platform, even on roads that aren't the best around.

### TomTom

This is, on paper, the simplest mount of all. As we had men-

tioned, it is a very neat idea, and we think this is something all GPS/PND device manufacturers should consider. However, the implementation needs to be slightly improved. If you don't tighten it well, the TomTom devices have the habit of falling off the windshield on a bumpy road. However, this minimalist design means you can even install it on the dashboard, depending on the car.

## MAPS, NAVIGATION & FEATURES

### Garmin

Easily the best navigation device as far as map clarity and precision is concerned. It was

satisfactorily precise on colony roads, and really came into its own on the main roads and the national highway. The lane guidance feature really works well on main roads, so much so that it will periodically guide you on which lane to stay in even if you are going straight for the next 2-3kms. Impressive set of features otherwise as well - fuel average calculator, trends to guess where you may be going and little bits like currency converter, calculator, Bluetooth for phone calls, ability to customize menu. The UI is easy to navigate, thanks to a heady mix of big icons and clear text. The 2565LM may

be expensive, but it includes free lifetime map updates with the device.

### MapmyIndia

While their maps look different on different devices, the navigation quality is very similar. We were surprised that SatGuide devices were disappointing, but MapmyIndia was brilliant as expected. The maps are probably the most detailed, and most devices (except the basic RoadPilot) offer 3D Maps as well. Throughout the range, the navigation precision is the same, thanks to the same set of basic maps. Voice navigation does see some variation in

### HIGH-END CATEGORY - DEVICES ABOVE ₹13,000

SatGuide 5.0 Navi with Video	MapMyIndia VX140s Premium	TomTom VIA 120	MapMyIndia VX240	MapMyIndia ZX250	TomTom VIA 125	Garmin nuvi 2565LM (India)	MapMyIndia CarPad
10990	11,990	12999	15,490	15990	15999	18990	22,990
28.04505287	32.19510809	31.25357978	32.16671486	32.7987436	32.66694352	34.38749232	30.93712233
25.52	25.32	28	25.76	27.44	28.04	28.28	29.76
6.1	6.1	4.7	6.3	6.8	4.7	5.3	7.1
59.66505287	63.61510809	63.95357978	64.22671486	67.0387436	65.40694352	67.96749232	67.79712233
5	4.3	4.3	4.3	5	5	5	7
micro SD	micro SD	-	SD	micro SD	micro SD	microSD	micro SD
Y	Y	Y	Y	Y	Y	Y	Y
Y	Y	N	Y	Y	N	Y (but no 3D view)	Y
Y	Y	Y	Y	Y	Y	Y	Y
Y	Y	Y	Y	Y	Y	Y	Y
Y	Y	Y	Y	Y	Y	Hindi and English	Y
-	-	Advanced lane guidance	-	Aura maps for 3D city models	Advanced lane guidance	Garmin Lock Anti-theft & MyTrends	-
₹990 per upgrade	₹990 per upgrade / ₹1250 for 1 year	Free upgrade for one year	₹990 per upgrade / ₹1250 for one year	₹990 per upgrade / ₹1250 for one year	Free upgrade for one year	Lifetime upgrades included in cost	₹990 per upgrade / ₹1,250 for 1 year
Y	Y	Y	Y	Y	Y	Y	Y
Y	Y	Y	Y	Y	Y	Y	Y
N	N	N	N	N	N	N	Y
Y	N	N	Y	Y	N	Y	N
Y	Y	N	Y	Y	N	Y	Y
Y	Y	N	Y	Y	N	N	Y
Y	Y	N	Y	Y	N	N	Y
180 x 125 x 95	122 x 78 x 12.5	119 x 80 x 25	123.5 x 81.5 x 17	135 x 90 x 13.5	134 x 93 x 19	137 x 83 x 15	198 x 122 x 13.2
198	165	183	192.6	185	213	192	N.A.
14.7	11.7	2.9	24.7	13.57	2.8	12.77	15.3
0.9	0.8	2.9	0.8	0.7	2.8	0.54	0.9
18.7	10.77	5.9	11.2	20.44	4.3	30.53	21.2
8	8	8	8	8	8	8	8
5.5	6	6	6	6	6	6.5	6.5
5.5	7	6.5	7	7	7	8.5	7.5
5	6	5.5	6	5.5	6	7	5
7.5	7.5	7.5	7.5	8	7.5	8	7.5
7	7.5	7	7.5	8.5	7	7.5	7.5
6	7	6	7	7	6	7	7
7	8.5	8	8.5	8.5	8	8	8.5

terms of clarity and customization options, mostly dependent on the device. The RoadPilot II Premium took the longest to lock on to a GPS signal, while the Vx140s Premium and the Vx250 did it very quickly. The high-end Zx250 takes about 8

seconds more than these two. We had a good time enjoying the English (Australian) setting, where the tone seemed as if it was just giving you a very slight guidance, and not really being forceful. You have to hear it to enjoy it! However, the Aus-

tralian voice guidance is more precise when it comes to turns – can distinguish between 90 degree turns and 140 degree fork turns and guides you accordingly – turn left or turn slightly left. Nice little addition that is very much appreciated.

The Zx250 is also compatible with a reverse parking sensor camera, and can act as a FM transmitter and also handle mobile calls via Bluetooth and has 2GB of internal memory. The Vx240 does almost everything the Zx250 does, but misses

Pick up birthday gift for the wife. Now, where is this Palladium mall, exactly?



Via Series starts @ ₹ 9,999/-

**WHERE DO  
YOU  
WANT TO GO?**

**tomtom**

## Zenbook prime

ASUS announced their new Zenbook primes sporting 1080p IPS panels and ivy-bridge  
<http://dgit.in/IDINDj>



## A glowing read

Nook announced that its "Nook Simple Touch with GlowLight" has started to ship out  
<http://dgit.in/J9fxRV>

out on the Aura maps. What we can't understand is why price these two devices within ₹500 of each other, when clearly the Zx250 makes more sense! Not that there is anything wrong with the Vx240. Similarly, if you are considering the RoadPilot II Premium, we suggest spending a bit more and getting the x140s Premium, which is quicker and feels a lot more upmarket.

### TomTom Via

We just love these two TomTom devices, and while these maps aren't 3D, they still look gorgeous and very much usable. They are the most matter of fact navigators in this entire bunch. It's also a no-nonsense device with almost a German precision. Switch on the Via 120 and the Via 125, and it opens up straight on the Maps application. Extremely quick GPS lock times help in that motive as well. Navigation quality is at par with what Garmin offers. The amaz-

ingly clean UI is easy to navigate even for a newbie.

### SatGuide

Both SatGuide devices were very different from each other as far as the navigation software UI was concerned. The 4.3 Navi doesn't take you straight to the map when you open the navigation software. Disappointingly, the navigation quality offered by these maps was confusing for the most part. Once off the main roads, it did give some confusing directions. Clearly, the road which we use daily for the last two years or so has not been mapped. But, gains back some lost ground by offering very good quality voice guidance quality. A whole bunch of value-adds as well.

### Primo GPS

Both devices – PG400X and the PG500X use the software and maps that look and perform very similar to the ones on the SatGuide navigators. The navigation quality is similar as well.

There are similar issues with navigation quality and precision as well. SatGuide and Primo GPS devices have up to the mark navigation quality and clarity, which is pretty much customizable as well, in terms of voice and language options. A whole host of other features – FM Radio, Picture and video viewer and MP3 player integrated, as well as an ebook reader and built-in games.

## WINNERS

### Best Performer

The Garmin Nuvi 2565LM is the winner of the Best Performance award. It has quick startup and standby-on times, but only average GPS lock times. Where it gets the advantage is because of the excellent display quality, touchscreen response, voice guidance and quality of navigation overall. MapmyIndia Zx250 and TomTom Via 125 ran it close though.



Garmin nuvi 2565LM (India)

### Best value (Low and mid-range category)

The MapmyIndiaRoadPilot is the second most inexpensive device in this test (@ ₹7,990), and yet scores better than the more expensive rivals – Satguide 5.0 Navi, both Primo GPS devices and even its cousin the RoadPilot II Premium. If you are in the market for a budget navigator, this is the one to buy.

### Best Value (High-end category)

MapmyIndia's Zx250 - their most premium navigator in this test is considerably less expensive than the Garmin Nuvi 2565LM, but runs it very close in terms of performance. If you believe that the Garmin one at ₹18,990 is a little expensive, the Zx250 at ₹15,990 offers very similar good performance and detailed feature set, and the unique Aura maps experience.

### Editor's Pick

We believe that the TomTomVia 120 is the device that you should pick if none of the riff-raff of features matter to and you just want to get down to the navigation bit as soon as the device starts. And oh boy does the Via 120 start quickly. This is the most matter of fact navigator you can buy. Costs less than the Via 125, and the only real difference between the Via 120 and the Via 125 is the different display size - 4.3-inches to 5.0-inches. **d**

## HOW WE TESTED

### UNIFORM ROUTES

We charted out two test routes in Delhi NCR, which covered a heady mix of colony roads, main roads and National Highways, and some popular POIs like restaurants. The idea was to see how the maps guide us on main roads, and how precise they are on colony roads, which is usually a confusing spaghetti of tarmac.

### MAPS & NAVIGATION

Navigation devices of different brands have their own unique package. Their mapping is done in a different way, and the maps themselves are very different. Navigation quality and even the ability to re-route a journey was compared.

### CAR, DRIVER, DRIVING STYLE

To keep everything constant, we

used the same car, with the same driver. Some of these devices have the Eco feature - calculate fuel average etc., and a standard driving style helps compare the accuracy if need be. For example, the Garmin Nuvi navigator has the Trends feature, as well as the ability to understand the users' navigation behavior. We avoided the slightest difference in engine displacement to keep all elements constant for precise results.

### PARAMETERS

Apart from startup time, we tested and rated the devices on the following parameters.

#### Navigation quality

We rated quality of navigation offered by each device, based on the precision on both test routes.

#### Voice navigation

We rate all devices on the quality of voice navigation, the amount of options available for language and voice clarity.

#### Display & Sound quality

Two critical features on a navigation device. If you cannot see the map clearly and quickly while driving, or the audio isn't clear enough, then what is the point? We rate these features based on how well they performed.

#### GPS lock time

This is the final piece of the jigsaw. Once the GPS is locked on, after a complete boot, you can input your destination and be on the way. The quicker devices score more points. The results are tabulated in the chart on the previous pages.



# TP-LINK®

The Reliable Choice

World's **No.1** WLAN and Broadband CPE  
(Based on a report in Q3 2011 by In-Stat)

5dBi

## Enjoy the Freedom of **Wireless!**

### 150Mbps Wireless N Router TL-WR740N



### 150Mbps Wireless N ADSL2+ Modem Router TD-W8951ND

• ADSL 2/2+ Modem, Wireless N Access Point and 4-Port Router, in a single device



TP-LINK India Private Limited

Address: Unit No.12 & 13, First Floor, Luthria House, Sativali Main Road, Sativali, Vasai Road (East) Maharashtra India Pin :- 401208

Website: [www.tp-link.in](http://www.tp-link.in) | Sales phone: +91 9768012285 | Sales e-mail: [sales.in@tp-link.com](mailto:sales.in@tp-link.com) | Technical support email: [support.in@tp-link.com](mailto:support.in@tp-link.com)

Toll Free: 1800 2094 168

**3Year**  
Warranty



### Space Mining

Plans have been set in motion to develop the first robotic space miners <http://dgit.in/K9JYIB>

### MapMyQuake?

Scientists have setup a network of GPS-equipped sensors to map earthquakes in California <http://dgit.in/IaVvNw>

# ZERO1 AWARD WINNERS

It's rather hard to get people in a room together, given the busy schedules these days, but the Zero1 Awards are certainly worth the wait. Here are some of the winners we've been able to get a hold of, and there are more to come...



Accepting the Zero1 award, Deepak Gupta, Country Manager, ZOTAC India

## Best Graphics Card

### ZOTAC GTX 590

When it came to selecting one winner, we had to select the ZOTAC GTX 590 as the best GPU last year, as it scored higher than any of its competitor in more than 50 per cent of our benchmark tests. The card also supported a three monitor setup, thanks to 3GB of video RAM.



## Best External Hard Drive

### ADATA NOBILITY NH03

Last year's Zero 1 award winner was bagged by the ADATA Nobility NH03 for its superior performance among all the external drives we tested and benchmarked at the time. In fact, the Nobility NH03 reached speeds as high as 120 MB/s in real-life read tests, one of the fastest in our tests.



We met Chris Chang, Managing Director, ADATA India, to present him with the Zero1 Award

## Best Wireless Router

### TPLINK-TL-MR3420

Of all the wireless routers we tested last year, the best undoubtedly was the TPLink-TL-MR3420.

It was the best router in terms of total throughput speed tested from various locations, well-built and had a bunch of connectivity features like LAN ports, a USB port and 3G data card support.



Marcus Lin of TP-LINK accepting the Zero1 Award





## Brain vs. Internet

A look at how the internet is actually rewiring our brains  
<http://dgit.in/I90kpD>

## AICTE Job Portal

AICTE is developing an academic networking site for students, alongside an employment portal and doctoral paper database. <http://dgit.in/InqCCB>

**Zero1 awards**

## Best Media Player

### IOMEGA SCREENPLAY DX 1 TB

As far as HD media players go, this little device just left us impressed. With 1 TB of built-in storage, easy to use XMB-styled UI and excellent performance, the iOmega Screenplay DX 1 TB was simply the best HD media player we reviewed in 2011, and it thoroughly deserved our Zero1 Award. Note: iOmega is a wholly owned subsidiary of EMC.



Praveen Sahai, Director of Sales, India & SAARC & Strategic Marketing Director, EMC

## Best Gaming Laptop & Best Motherboard

### ASUS G74SX & ASUS ROG MAXIMUS IV EXTREME Z



(L-R) Vinay Shetty, Unaaz Khurashi, and Albert Tung from Asus India



The best performing gaming laptop of the year 2011, according to our comparison tests and reviews, was the Asus G74SX. Worth buying despite its asking price of over 1 lakh. Similarly, the best motherboard of 2011 accolade went to the Asus ROG Maximus IV Extreme Z.

## Best Monitor

### BENQ XL2410T

Back when we compared monitors in June 2011, the BenQ XL2410T was one monitor that encompassed all the good points from all the major monitors out there at the time. The 23.6-inch monitor has an LED backlit LCD display with a 120 Hz refresh rate, ideal for watching 3D content and playing 3D games using NVIDIA 3D Vision.



Rajeev Singh, Country Head, Benq India, accepting the Zero1 Award





### Logitech's wireless products

Logitech's released a new range of wireless products in India, such as the Logitech Touch Mouse M600, with a touch surface <http://dgit.in/I9ocVy>

### Lost Planet 3 Coming

Capcom has announced Lost Planet 3, which will launch early next year <http://dgit.in/JJKD3M>

# LED the way...



With tonnes of LED backlit LCD monitors available in the market, how do you select the right model for your particular needs? We face-off 22 LED backlit LCD monitors, to find out which one should grace your desk

Nimish Sawant

[nimish.sawant@thinkdigit.com](mailto:nimish.sawant@thinkdigit.com)

**M**onitors is a category where the notion, bigger is better, does hold true to some extent. What else can explain the fact that this year we received as many as six 27-inch monitors as opposed to just one in last year's monitor comparison test? The LCD vs LED backlit LCD monitor battle is pretty much in the past now, as most of the monitors we tested this time around were LED backlit LCD displays. There however was a variety in the panels such as twisted nematic (TN), vertical alignment

(VA) and in-plane switching (IPS). We decided to have monitors over 19-inches only, as we feel that is the minimum size you need to opt for if you aim to get an HD experience which has become a norm these days. Unless you are in office, it does not make sense to go for non-HD monitors for home use.

### UNDER 22-INCHES

There were around six monitors in this category with most of them being 21.5-inch screen size except for the BenQ BL902 which was a 19-incher. The BL902 comes in a 5:4 aspect ratio and a native resolution of 1280x1024, which positions it as a good choice for office use,

where you will be working with a lot of excel sheets and documents, and you need extra vertical pixels. But the BL902 is definitely not meant for entertainment purpose. Build quality of this monitor is top notch. Of the other three BenQ monitors, only the RL2240H stood out thanks to its glossy white plastic body. In terms of looks, the other BenQ monitors were the same black bodies, sporting a matte-finish screen. The buttons for the OSD operation were well placed, the usability of the menu system is very good and it offers preset options such as Standard, Movie, Game, Photo, sRGB, and Eco. BenQ G2222HDAL only has a single D-Sub port for display,

which we found a bit strange considering it is a full HD display. The GL2250HM makes for a more better option than the G2222HDAL for a bit more.

LG Flatron E2290 was the showpiece in this segment, thanks to its extremely slim form factor. At 7mm thickness it is the thinnest monitor we have tested in a long time. It has a shiny silver finish and the display ports are recessed deep under the monitor stand. The power and OSD buttons are touch sensitive and located on the stand. Only tilt movement is offered. There are only three preset options namely Movie, Internet and Normal along with some photo effects such



## New Kinect Sports Bundle

White Xbox 360 4GB Kinect Sports Value Bundle comes with a console, controller, Kinect sensor and 2 titles, for Rs. 24,990 <http://dgit.in/JJJsKZ>

## TRAI blocks tariff ads

Ambiguous mobile tariff advertisements to stop and users to get complete information <http://dgit.in/JzzPrK>

**LED Comparison**

as Gaussian blur, Sepia, etc. Acer S221HQL is a very simple looking display, not trying too hard to stand out of the crowd. It is slimmer as compared to the BenQ monitors thanks to the power unit being separate from the body. We quite liked the responsive OSD buttons and ease of access of OSD options. Gaming on the calibrated mode was quite good on all the monitors. The best experience was had on the BenQ monitors, but make sure you don't switch to the Gaming preset mode as that tends to give a lot of unwanted false colours. The LG E2290 was also quite good for gaming despite it being primarily an entertainment and internet specific monitor. Acer S221HQL gave the highest contrast ratios followed by RL 2240H. In the

Lagom.nl tests, only the LG monitor and BenQ G2222HDAL gave impressive scores with the gradient banding tests. And barring the G2222HDAL, HD movie performance was quite good on all other monitors.

## 23-INCHES

This category had two 3D monitors namely LG Flatron Cinema 3D D2342P and Acer GR235H. While the LG monitor comes in a glossy black bezel, the Acer one has a glossy black line running on top of the matte finish bezel. The base stand of the Acer with its pointy edges makes it stand out from the crowd, but it makes the monitor shake badly even on a minor nudging. The LG monitor implements the Cinema 3D technology which is seen in LG's 3D TVs, which

incorporates passive 3D glasses – you get a regular framed passive 3D glass and a clip-on 3D passive glass for people already wearing spectacles. Acer GR235H also bundles in passive 3D glasses. It lacks a dedicated DVI-D port, but it supports NVIDIA 3D gaming, which means the HDMI ports are 1.4a com-

pliant. The buttons on the LG monitor are not very tactile but it's much better than having touch sensitive buttons. The 3D mode strangely gets disabled when you connect the DVI cable and activates once you connect the HDMI cable. Overall, the 2D to 3D experience on these monitors was quite mediocre, nothing great.

ASUS had two monitors in this under-24inch segment, ie. VS247H and the professional PA238Q. The IPS panel based PA238Q belongs to the Pro-Art series of monitors which are targeted at professional users. This monitor has the sturdiest build in this segment with ability to swivel, tilt and adjust the height. It also has a bunch of preset modes, colour tweaking options to play around with. ASUS VS247H is a 23.6-inch monitor having a neat minimalist design. It offers night viewing mode, gaming preset mode and even sRGB mode for discerning users. The patterned finish on the rear of the monitor looks quite good. Samsung S23A350H was the only monitor from Samsung in this



BenQ GL2450HM

test. Its aesthetics are reminiscent of the older PX2370 around the bezel, but it lacks the transparent monitor stand that stood out in the PX series. It has a patterned finish on the rear side and lacks a DVI port. Touch-sensitive buttons on the monitor bezel are used to navigate the OSD menu. The base stand has a groove for wire management.

Samsung gave poor contrast ratios due to poor black levels. Acer and LG's 3D monitors gave impressive contrast ratios, whereas the two remaining ASUS monitors were decent scorers. In the Lagom.nl test, both LG and Acer gave a flicker free output in the pixel walk test. The black level test on the ASUS VS247H was quite good as it showed each black block distinctly without any greenish tinge which is very common



BenQ EW2430V

# World's first HD media player that supports Acetrax

**ASUS**  
Inspiring Innovation • Persistent Perfection

**O!PLAY Mini Plus**  
SMART TV SET-TOP BOX



ASUS - No.1 in Quality and Services - The Wall Street Journal Asia

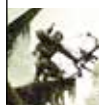
[www.asus.in](http://www.asus.in) | Toll Free No. 1800-2090-365 | For Feedback Email [reachus@asus.com](mailto:reachus@asus.com) or Log on to [www.asusservice.com](http://www.asusservice.com)

\* Conditions Apply | All Specifications are subject to change without notice. Product availability may vary by region.



## Tablets will replace PCs?

Was Apple CEO Tim Cook wrong when he said that the "post-PC revolution" is upon us? Find out why <http://dgit.in/Jp472i>



## Crysis 3 in 2013

EA's announced Crysis 3 will hit store shelves in 2013, and Prophet will return to a Cell Corporation Nanodome-encased New York <http://dgit.in/JzyCR9>

with panels whose black levels aren't that great. The Samsung monitor for instance merged as many as five to six blocks and also had a slight greenish tinge in the grey coloured boxes. The HD movie viewing experience was good in most of the monitors. Scrolling text readability was not really great on the Samsung monitor.

## 24-INCHES

This category was dominated by the BenQ monitors with only Dell U2412M providing some competition. We also see a variety of panels in this segment namely TN, VA and IPS. The Dell U2412M sports a 24-inch eIPS panel with an aspect ratio of 16:10 which allows it to pack in more pixels than the 16:9 aspect ratio based BenQ monitors. On first glance, the Dell monitor looks quite professional, with a

thick profile, ability to swivel, tilt and adjust the height. We liked the Energy indicator atop the Brightness and Contrast controls. The build is rock-steady and viewing angles on this IPS display are very good indeed.

Of the BenQ monitors, the XL2420T stands out as a high end monitor when compared with the competitors. The XL2420T is a 3D LED backlit LCD monitor, targeted at gamers, with special options to save up to three gamer profiles. You will also be presented with a long list of preset options from your regular

Standard, Movie, Text to FPS profiles. It comes bundled with an S-switch which basically allows you to control the OSD with the help of three buttons and a scroll wheel. There are many options to tweak around on this monitor but you have to make do with touch-sensitive

buttons on the monitor bezel. The Black equalizer option allows get more details out of the shadowy areas, without affecting the brighter portions on the screen, a really nifty feature to have.

BenQ EW2430 is a PVA panel based monitor. It comes on a sturdy silver coloured stand sporting a glossy black bezel. The OSD buttons located on the rear side of the monitor, are a bit uncomfortable to use and even though the usability of the OSD is great, you will take some time to learn how to operate it blindly. Two HDMI ports along with a DVI and DSub port, give you options to add more devices to the monitor. The speakers on the monitor are ordinary at best.

Apart from the high end monitors, BenQ also has some budget offerings in terms of GL2450 and RL2450H. GL2450 is your standard home use monitor whereas the RL2450H has been developed keeping RTS gamers in mind, offering an RTS preset mode and it also has the Black Equalizer feature seen on the high end XL2420T which allows you to brighten darker areas in a game, without blowing out the brighter areas. It's crucial if your monitor tends to darken the enemies while gaming.

In terms of performance, the EW2430 offered an amazing contrast ratio of around 1439:1 at 100 per cent brightness and 50 per cent contrast. The Dell U2412M gave mediocre contrast ratio of around 223:1 at standard setting, we could manage to get the contrast ratio over 500:1 on using the text preset mode. The black levels offered by the XL2420T were quite good and the gaming experience was flawless. The Black



BenQ XL2420T

## HOW WE TESTED

We divided the monitors received into categories based on their screen sizes. As far as features went, we logged all the physical specifications on the monitors including details of the panel, connectivity options, swivelling options, USB ports, etc. Build Quality was evaluated and scored accordingly. We also evaluated the on-screen display options and its ease of use.

Our test bed comprised of the following components:

- Processor: Intel Core i7-3960X
- Motherboard: Intel DX79SI
- RAM: 8 GB DDR3 RAM @ 1333MHz
- SSD: Kingston HyperX 240GB SSD
- Graphics Card: NVIDIA GTX 590 (with the 3D Vision kit for 3D monitors)

We used Spyder 3 Elite to calibrate each display and also to give

us the real contrast ratio and luminance value. Manufacturer's specified contrast ratios are determined under certain conditions and at specific brightness and contrast levels. While the luminance is calculated at 100 percent brightness, we noticed that it was not the correct level for calculating Contrast ratio, as some monitors showed heavy backlight bleeding on maximum brightness. So to calculate contrast ratio with the Spyder 3 Elite colorimeter, we calculated Contrast ratios with brightness levels at 100 percent and 50 percent, as most use cases will have the brightness within this limit. All monitors were tested on Standard Mode with User Colour feature activated for us to be able to tweak each of the RGB sliders. All enhancement options were disabled.

The calibrated monitors (at 50 percent brightness level) were

then subjected to Lagom.nl tests which basically involves checking the black and white gradients, black level, white level, pixel walk (inversion), contrast etc.

Our movie test comprised a set of two 1080p clips which encompassed a mix of natural scenery, fast moving action scenes and scenes involving humans. We looked for the colour rendition, skin tones, noise and contrast levels and 5-6 particular spots in the HD clips. Each spot was given a score out of 10 based on the output and resistance to backlight bleeding. These scores were then averaged to get one single score per HD clip.

Viewing angles were also evaluated for text, movie and game display. PixPerAn was used to evaluate how well the monitor could enable readability of scrolling text.



# DIGILITE ON YOUR POCKET HIGH ON FEATURES



Endorsed with Burnt Warranty\*

New DIGILITE DL-IPMSB-H61 comes with JAPANESE SOLID CAPACITORS FOR CPU VRM.

#### Specifications:

- Chipset - Intel® H61
- Form Factor - uATX (244x203)
- Memory - 2 ch, 2 DIMMDDR3 1333/ 1066/ 800"
- PCI-Ex16 - 1
- PCI - 2
- PCI-Ex1 - 1
- SATA - 4 SATA II
- LAN - GbE LAN (Realtek)
- USB - 10 USB2.0"
- Audio - 6 channel Realtek HD Audio"
- TPM - 1 by header
- Parallel Port - 1 by header
- COM Port - 1 port by header
- VGA port - Yes
- DVI port - Yes



**3Years**  
Warrenty

**Upto 38%**  
Faster

**DDR3**  
Compatible

Check out the new range of DIGILITE Mother Boards



DL-G41MX3-LT



DL-H67MPS-FC



DL-A75M



DL-A55M



DL-A76ML-K



DL-A88GMV

• ANDHRA PRADESH 9985501002  
• COIMBATORE 9744963130  
• J & K 9815655334  
• MAHARASHTRA 8806141001  
• TAMIL NADU 9884204195

• ASSAM(NE) 9830301971  
• GOA 8806141001  
• JHARKHAND 9830301971  
• MUMBAI 8879399986/9004544315  
• UTTARPRADESH 9910300890

• BIHAR 9830301971  
• GUJRAT 9601849189  
• KARNATAKA 8553007710  
• NEW DELHI 9910300890  
• UTTARAKHAND 9910300890

• CHANDIGARH 9815655334  
• HARYANA 9910300890  
• KERLA 9744963130  
• PUNJAB 9815655334  
• WEST BENGAL 9830301971

• CHATTISGARH 8806141001  
• HIMACHAL PRADESH 9815655334  
• MADHYA PRADESH 9601849189  
• RAJASTHAN 9601849189



Toll Free No: 1800-209-3444



helpdesk@digilite.co.in



www.digilite.co.in

## Gmail offers 10GB space

After the Google Drive launch announcement, Google has increased the Gmail storage from 7.5GB to 10 GB



## Adobe CS6 released

Adobe's Creative Suite 6 (CS6) is up for pre-order (with rupee pricing), and will be available by late May <http://dgit.in/HZBCUT>



	UNDER 22-INCHES						23-INCHES			
BRAND	BenQ	BenQ	BenQ	Acer	BenQ	LG	Samsung	ASUS	LG	
Model	BL902M	GL2250HM	G2222HDAL	S221HQL	RL2240H	E2290V	S23A350H	VS247H	D2342P	
Price (in ₹)	8,850	8,700	8,000	8,500	10,000	12,280	11,300	12,300	15,850	
Features (Out of 40)	18.48	22.4	15.6	19.2	18.8	18.8	14	21.2	21.2	
Build and Design (Out of 10)	7.55	6.85	6.9	6.4	6.45	6.85	6.2	6.85	6.25	
Performance (Out of 50)	27.67	27.87	25.17	26.8	29.03	27.84	23.38	25.05	29.82	
Grand Total (Out of 100)	53.7	57.12	47.67	52.4	54.28	53.49	43.58	53.1	57.27	
Features										
Display Size (inches)	19	21.5	21.5	21.5	21.5	21.5	23	23.6	23	
Panel Technology (TN / IPS / MVA etc)	TN	TN	TN	TN	TN	TN	TN	TN	TN	
Native Resolution (HxV pixels)	1280x1024	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	
Screen Aspect Ratio	5:4	16:9	16:9	16:9	16:9	16:9	16:9	16:9	16:9	
Type of Panel (Matte / Glossy)	Matte	Matte	Matte	Matte	Matte	Matte	Matte	Matte	Matte	
3D Support	N	N	N	N	N	N	N	N	Y	
USB Hub (Y/N)	N	N	N	N	N	N	N	N	N	
No. of USB Ports	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Card Reader (Y/N)	N	N	N	N	N	N	N	N	N	
Types of cards supported	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Built-in Speakers	Y	Y	N	N	N	N	N	N	N	
VESA Wall Mount	Y	Y	Y	Y	N	N	N	Y	Y	
Swivel	N	N	N	N	N	N	N	N	N	
Tilt	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Height Adjustment (Y/N)	N	N	N	N	N	N	N	N	N	
Portrait Mode (Y/N)	N	N	N	N	N	N	N	N	N	
HDMI Ports	0	1	0	1	1	1	1	1	1	
DVI Ports	1	1	0	1	1	1	0	1	1	
D-Sub Ports	1	1	1	1	1	1	1	1	1	
DisplayPort	0	0	0	0	0	0	0	0	0	
YPbPr	0	0	0	0	0	0	0	0	0	
Audio Connects	Y	Y	Y	N	Y	Y	N	Y	Y	
WebCam	N	N	N	N	N	N	N	N	N	
Build and Design (So 10)										
Bezel Quality	8	8	8	7	7	9	7	7	8	
Quality of moving parts	8	6	7	6	7	8	6.5	7	6	
OSD Usability and Layout	8	8	8	7	7	6	6.5	8	7	
Menu Buttons	7	7	7	6	6	0	0	6	6	
Touch Response (in case of no buttons)	0	0	0	0	0	6	4	0	0	
Stability on mild tapping	8	6	5	7	6	8	7	6	5	
Performance										
Lagom.nl Tests										
Contrast Test	8	8	6.5	6	8	8	7	8	8	
Clock and Phase test	8	8	8	8	8	8	8	8	8	
Black Level	3	5	4	3	4	3	5	1	2	
White Saturation	4	3	1	3	3	2	2	2	1	
Gradient Banding	7	6	7.5	6.5	6	7.5	7	6	7	
Inversion (Pixel Walk) (flickering)										
1/2a/2b/3	N/N/Y/N	N/N/N/N	N/N/Y/Y	N/N/N/N	N/N/N/N	N/N/N/N	N/N/N/N	N/Y/N/N	N/N/N/N	
4a/4b/5/6a	N/Y/N/N	N/Y/N/N	N/Y/N/N	N/Y/N/N	N/N/N/N	Y/N/N/N	Y/N/N/N	Y/N/N/N	N/N/N/N	
6b/7a/7b	N/Y/Y	N/N/N	N/N/N	N/N/N	N/N/N	N/N/N	N/N/N	N/N/N	N/N/N	
Viewing angles (severe colour shift)										
Extreme Left side	N	N	N	N	N	N	N	N	N	
Extreme Right side	N	N	N	N	N	N	N	N	N	
From the top	N	N	N	N	N	N	N	N	N	
From the bottom	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Readability Test (So 10)										
PixperAn	9	10	9	9	11	9	7	9	10	
Spyder3 Elite Colorimeter test										
At Brightness 50, Contrast 50										
Luminance	163.4	133	86.5	154.4	131.4	91.7	96.8	88.5	123.8	
Black Level	0.27	0.23	0.19	0.2	0.21	0.19	0.68	0.26	0.23	
Contrast Ratio	598.14	570.86	454.21	722.5	624.28	476.31	138.38	336.53	535.65	
At Brightness 100, Contrast 50										
Luminance	275.5	225.8	136.1	249.5	205.6	150.6	192.3	156.8	182	
Black Level	0.45	0.4	0.29	0.32	0.32	0.29	0.94	0.4	0.32	
Contrast Ratio	598.44	555.25	440.34	723.75	631.87	496.89	205	368	549.68	
HD Clip 1 (The Human Centipede)										
HD Clip 1 Overall score	7.17	7.17	6.67	7	7.33	7.17	6.17	6.92	7.25	
Overall Skin Tone	8	8	7	8	8	8	7	7	8	
Banding prominent	N	N	Y	Y	N	N	N	Y	N	
HD Clip 2 (Hangover 2)										
HD Clip 2 Overall score	7.2	7.2	7	6.8	7	6.8	6.2	7	7	
Overall Skin Tone	7	7	7	7	8	7	7	7	7	
Banding prominent	N	N	N	N	N	N	N	N	N	



## Skype on PS Vita

Skype will be available for free on the PlayStation Vita allowing you to make video calls in the middle of a game session <http://goo.gl/PpAbz>

## Radeon HD 7000M announced

AMD has announced three HD 7000M series chips named HD7900M, HD7800M and HD7700M with Enduro graphics switching technology

**LED Comparison**



24-INCHES								27-INCHES					
Acer	ASUS	BenQ	BenQ	Dell	BenQ	BenQ	AOC	BenQ	ASUS	ASUS	BenQ	Philips	
GR235H	PA238	XL2420T	EW 2430V	U2412M	GL2450HM	RL2450H	e2795Vh	GL2750HM	VG 278H	VK278Q	EW2730V	273P3LPH	
15,999	17,100	22,000	20,990	23,000	12,500	14,500	17,990	18,500	40,300	22,850	23,990	19,990	
18.8	30	30.12	25.12	25.6	21.2	21.2	23.52	21.2	24.4	25.28	25.12	29.24	
6.35	7.6	7.45	7.5	7.6	7.33	7.2	6.5	7.33	7.6	7.5	7.5	6.55	
27.05	24.71	27.7	34.27	22.77	25.68	26.12	23.04	28.94	24.18	25.59	31.91	29.19	
52.2	62.31	65.27	66.89	55.97	54.21	54.52	53.06	57.47	56.18	58.37	64.53	64.98	
23	23	24	24	24	24	24	27	27	27	27	27	27	
TN	IPS	TN	VA	IPS	TN	TN	TN	TN	TN	TN	VA	TN	
1920x1080	1920x1080	1920x1080	1920x1080	1920x1200	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	
16:9	16:9	16:9	16:9	16:10	16:9	16:9	16:9	16:9	16:9	16:9	16:9	16:9	
Matte	Matte	Matte	Matte	Matte	Matte	Matte	Matte	Matte	Matte	Matte	Matte	Matte	
Y	N	Y	N	N	N	N	N	N	Y	N	N	N	
N	Y	Y	Y	Y	N	N	Y	N	N	N	Y	Y	
NA	4	3	4	4	NA	NA	4	NA	NA	NA	4	3	
N	N	N	N	N	N	N	N	N	N	N	N	N	
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
N	N	N	Y	N	N	N	Y	N	Y	Y	Y	Y	
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
N	Y	Y	N	Y	N	N	N	N	N	N	N	Y	
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
N	Y	Y	N	Y	N	N	N	N	Y	N	N	Y	
N	Y	Y	N	Y	N	N	N	N	N	N	N	Y	
2	1	2	2	0	1	1	1	1	1	1	2	1	
0	1	1	1	1	1	1	1	1	1	1	1	1	
1	1	1	1	1	1	1	1	1	1	1	1	1	
0	1	1	0	1	0	0	0	0	0	0	1	0	
0	0	0	1	0	0	0	0	0	0	0	1	0	
Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	
N	N	N	N	N	N	N	N	N	N	Y	N	N	
8	8	8	8	8	8	8	8	8	8	8	8	8	
7	8	8	8	8	8	7	7	8	8.5	8	8	9	
6	8	8	8	8	8	8	6	8	8	8	8	5	
6	8	0	6	8	7	7	6	7	6	6	6	0	
0	0	5	0	0	0	0	0	0	0	0	0	4	
7	8	8	8	8	6.5	7	8	6.5	8	8	8	9	
6	7	7	8	7	6	6	7.5	8	8	8	8	7	
8	8	8	8	8	8	8	8	8	8	8	7	8	
5	3	2	4	3	2	3	7	2	3	3	6	4	
4	2	8	1	2	3	3	2	2	2	2	2	1	
6	7	6	6	8	6.5	6.5	6.5	8	7.5	6	8	8.5	
N/N/N/N	N/Y/N/N	N/N/Y/Y	N/Y/N/N	N/Y/Y/N	N/N/N/N	N/N/N/N	N/Y/N/N	N/N/N/N	N/Y/N/N	N/Y/N/N	N/Y/N/Y	N/Y/N/N	
N/N/N/N	Y/N/N/N	N/Y/N/N	Y/N/N/N	Y/Y/N/N	Y/Y/N/N	Y/Y/N/N	Y/N/N/N	Y/N/N/N	Y/Y/N/N	Y/N/N/N	Y/N/Y/N	Y/N/N/N	
N/N/N	N/N/N	N/N/Y	N/N/N	N/N/N	N/N/N	N/N/N	N/Y/N	N/Y/N	N/N/Y	N/N/N	N/N/N	N/N/N	
N	N	N	N	N	N	N	N	N	N	N	N	N	
N	N	N	N	N	N	N	N	N	N	N	N	N	
Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	N	Y	
9	10	8	9	9	9	9	10	10	10	10	11	10	
152.4	86.1	232.1	158	66.1	121.6	143.3	65.8	172.2	146.4	140.7	264.3	159.7	
0.25	0.25	0.28	0.11	0.3	0.23	0.25	0.21	0.19	0.42	0.27	0.21	0.18	
606.8	335.2	811.07	1440.9	220.33	526.09	574.8	301.42	860.52	343.57	499.25	1076.67	882.22	
235.4	132.2	337.4	230.7	114.7	199.6	221.5	101.1	286	238.8	221.3	382.6	258.6	
0.36	0.39	0.41	0.16	0.48	0.37	0.37	0.31	0.31	0.62	0.38	0.3	0.28	
636.67	331.02	808.14	1439.38	233.54	538.12	593.78	308.71	872.9	372.74	556.05	1092.66	908.92	
6.33	6.67	7.17	7.25	6.5	7.33	7.33	6.75	7.33	6.67	6.92	7.5	7.67	
7	7	8	8	7	8	8	7	8	7	8	7	8	
N	N	N	N	N	N	N	N	N	N	N	N	N	
6.4	6.2	7.4	7.2	6.6	7.2	7.2	6.8	7.2	6.8	6.6	6.4	7.4	
7	7	8	7	7	8	8	7	8	7	7	7	8	
N	N	N	N	N	N	N	N	N	N	N	N	N	



## 6.87m subscribers added

The Cellular Operators Association of India says 6.87 million new GSM subscribers were added in March, making it 664.08 million total <http://dgit.in/Jjnp7W>



## Pics in space

12 incredible photographs taken from Earth's orbit <http://dgit.in/JIEGLR>



ASUS VS247H

Equalizer mode worked quite well in darker regions of the game. Movie viewing was a pleasure on all the competing monitors, but we did experience some amount of backlight bleeding on the Dell U2412M.

## 27-INCHES

We were frankly surprised out of our wits, when we saw so many 27-inch monitors. As mentioned earlier, last year in the comparison test we had only one 27-incher. All the monitors in this segment support the 16:9 aspect ratio and have a native resolution of 1920x1080 pixels. Philips 273P3LPH sports a TN panel and looks the sturdiest among the lot. It has special infrared sensors, which detect the presence of a user. If you are away from your desk, it automatically reduces brightness to save power, and if you are away for a longer duration, it switches off the backlight completely. There are touch sensitive buttons on the monitor which are a pain to use. The OSD is well laid out and there are lots of tweaking options, but if you have to constantly tap on the touch buttons to activate certain menus, it just becomes a point-less exercise after a while.

AOC e2795Vh along with BenQ GL2750HM are the

most basic looking 27-inch monitors offering only tilt mechanism. Both these monitors are priced very aggressively, in fact they are cheaper than some 24-inch monitors. The AOC e2795Vh has a range of connectivity options. Its OSD layout is quite good and thanks to the but-

tons present just below the monitor bezel, navigating and tweaking is pain-free. The GL2750HM offers the basic feature sets seen in other GL series of monitors, which is aimed at entertainment use.

The BenQ EW2730 is the only VA panel based monitor in this segment and has aes-

thetics which are very similar to the EW2430, which includes a brush metal finish on the base stand, glossy black plastic finish on the rear of the monitor, tactile buttons located behind the monitor to navigate the OSD menu, among others. There are stereo speakers facing down and it has the similar number of display ports such as two HDMI ports and single DVI and D Sub ports. It also bundles in a remote control, thus making OSD operations possible from your couch.

ASUS VK278Q is a full HD display and the only one to feature a 2.0 MP camera atop the monitor. It has a glossy black body – a finger-print and dust magnet. The screen has a matte finish. The OSD buttons are located at the base of the bezel on the right hand side. It has all four display ports, alongwith in-built speakers. You only get

the tilt option. We were quite impressed with the Picture-in-Picture option which allows you to get feeds from two display sources.

The other ASUS 27-inch monitor was the 3D supporting VG278H. The webcam unit on the VK278Q is replaced by 3D emitter for 3D glasses. The ability to tilt the emitter is quite functional as it allows you to get the best reception without having to tilt the monitor. It also supports the NVIDIA Light-boost technology offered by the 3D Vision 2 kit. You have quite a lot of preset options to select from including an sRGB mode and picture adjustment options include skin tone adjustment, smartview among others. It offers tilt as well as height adjustment options.

When it came to performance, the VA panel based BenQ

## 3D GAMING EXPERIENCE

Since we had around three 3D gaming monitors, we decided to try out a couple of games on them, to see how good the experience was. Now 3D gaming is a very subjective thing, hence we did not use it for scoring. The two games we tested were *Dirt 3* and *Crysis: Warhead*. While the *Dirt 3* has an Excellent rating in the list of compatibility with NVIDIA 3D Vision control panel, *Crysis Warhead* has a Good rating.

While playing *Dirt 3* with the regular camera mode, where you see the complete car, you will not encounter much depth. But enter the driver-seat camera mode, and you see proper layers of depths. With the ASUS VS278H's on-board emitter, the setup of the 3D vision glasses wasn't much of a hassle, but whenever the car banged into any obstacle, the screen would freeze momentarily

and give artifacts before quickly moving on with the game. With the dedicated 3D emitter we did not notice this issue. On the BenQ XL2420T we had a smooth experience. On both these monitors, the 3D depth should be around 20 percent, anything more and you will witness a lot of crosstalk. The Acer monitor requires HDMI 1.4a cables, which is bundled with the monitor. We found it quite strange that it did not have a DVI-D port.

*Crysis Warhead* on any 3D monitor, will give you a headache. Thanks to forest scene which involves abundant trees, it becomes very difficult to notice any depth. We also experienced a lot of stuttering, wherein the 3D view would disappear and you would see crosstalk images before the control was restored to 3D view. Getting a clean headshot

is out of the question as the reticular circle which forms the target is not very steady. Overall, none of the monitors gave a decent experience with *Crysis Warhead*. This was just our experience. Some of you may find the 3D gaming experience to be very good and others won't last 5 minutes with those clunky glasses. It is best to stick to games that have an Excellent rating on the NVIDIA 3D control panel.

Among the 3D monitors, the choice was quite obvious as the costing of the ASUS VS278H is very restrictive. The BenQ XL2420T gave an experience that was quite similar to the the ASUS monitor, while being priced at 40 percent the cost of the ASUS monitor. Plus the amount of tweaking options offered on XL2420T were much better than the VS 278H.



## Mercury's mTab Neo 2 tablet

Mercury's mTab Neo2 tablet's been priced at Rs. 14,999 and a dual-core 1.2GHz processor  
<http://dgit.in/JzztBk>



## New Nikon CoolPix cameras

Nikon launched 13 new Coolpix compact cameras as part of its Spring Summer 2012 collection. <http://dgit.in/I3H0HI>

**LED Comparison**

### CONTACT DETAILS

Brand	Company	Phone No	E-Mail	Website
AOC	Top Victory Investments Ltd.	0124 2806116	infoindia@aoc.com	www.aocindia.com
Samsung	Samsung India	0124-4881234	c.ayan@samsung.com	
BenQ	BenQ India Pvt. Ltd.	1800-419-9979	Sales.EnquiryIn@BenQ.com	www.benq.co.in
LG	LG Electronics India Pvt. Ltd.	1800 180 9999	NA	www.lg.com
Philips	Top Victory Investments Ltd.	9654455821	mayank.singh@mmd-p.com	www.Philips.com
Asus	ASUS Technology Pvt. Ltd.	18002090365	reachus@asus.com	www.asus.in
Dell	Dell India Pvt Ltd	1800-425-4026	NA	www.dell.com
Acer	Acer India Pvt Ltd	080 - 39408700	ailenquiries@acer.co.in	www.acer.co.in

EW2730 aced the Spyder-3Elite colorimeter tests giving a contrast ratio of 1092.66:1 at 100 percent brightness and 50 per cent contrast. Scrolling text readability was the best in this segment thanks to the size of the monitors. The Philips 273P3PLH gave the smoothest

transition in the gradient banding test in the Lagom.nl suite of tests, with the BenQ EW2730 and GL2750HM following closely. In AOC and ASUS VK278Q monitors, we could notice separate bands in the gradient banding test.

HD movie viewing was great overall, with the EW2730 and Philips monitors offering the best contrast levels in dark scenes. Banding was not noticed in the solid portions of the scene and viewing angles offered by the EW2730 was the best.

money offering. Acer S221HQL offered good performance and price, but the BenQ GL2250HM edged past in the features and build quality. RL2240H was a better performer but lost out due to higher pricing. The other notable monitor was the LG E2290V which had excellent aesthetics and decent performance to match it as well.

**23-inches: ASUS VS247H** won the **Best Buy** here for its good performance and better pricing. There weren't really any close competitors in this segment. Performance wise the LG D2342P was the best in this segment.

**24-inches:** This category had a lot of winners. **BenQ EW2430V** bagged the overall **Best Performer** award for its

overall good performance, true to life colour reproduction, beautiful black levels, among others. In terms of performance, its closest competitor was the XL2420T. The **BenQ GL2450HM** won the **Best Buy** for the value for money offering whereas **BenQ XL2420T** won the **Editor's Pick** for the best overall package at a competitive pricing.

**27-inches:** The **Philips 273P3PLH** won the **Best Buy** here thanks to its performance to price offering. Although the BenQ EW2730 scored higher in performance, the Philips mon-



Philips 273P3PLH



LG E22290V

itor trailed by a minor 2 points, and when you saw the overall score, Philips edged past by 0.5 points. As its pricing was much lower than the BenQ EW2730, it got the award. **d**

## VERDICT

**Under 22-inches:** **BenQ GL2250HM** bagged the **Best Buy** award for its great value for

**ASUS**  
Inspiring Innovation • Persistent Perfection

**ASUS LED Monitors**

**The Most User-Friendly Professional Monitors**

IPS LED Color Accuracy 25°C 100% sRGB 1000000:1 2ms 55% HDMI Splendid Ultra Slim

PA238Q ML248H (24" W) ML238H (23" W)

**ASUS - No.1 in Quality and Services** - The Wall Street Journal Asia

www.asus.in | Toll Free No. 1800-2090-365  
SMS ASUS-LED to 567678 | For Feedback Email reachus@asus.com or Log on to www.asusservice.com

## Google Nexus Tablet

Rumours of a co-branded Google tablet have once again surfaced online, scheduled for arrival later this year.



## Wacom launches Intuos5

The graphic design tablet has some cool new features, selling for a starting price of ₹17,200 <http://dgit.in/HVnmM2>

# HTC One X

## The ultimate Android smartphone, at the moment



for memory expansion. The HTC One X uses a micro SIM, instead of the standard SIM that we are using in our phones, mostly.

In the real-world usage scenario, the One X feels like any dual core powered smartphone, for the most part. However, most apps load quicker, and games are definitely a smoother experience. But despite having 1GB of RAM, there is never more than 250MB of free RAM. The background processes, and lots of them for that matter, eat up a whole lot of RAM.

The 4.7-inch Super IPS LCD2 is definitely among the best we have seen in smartphones, if not the best. The colour temperature is on a lighter side when compared side by side with an AMOLED display, but takes the advantage in terms of wider viewing angles and infinitely crisper text. Brightness levels are quite superb as well, and so are the black-level depths.

Cameras in most smartphones flatter to deceive, but this one is probably the best of the lot. And it can easily stand up to the one in the iPhone 4S. No need to change modes between photo and video by toggling the slider. What this does is reduce one step in the process, and saves on switch-over time. Photo quality is much better than expected - dollop of crispness and no noise. Videos recorded on this are an absolute delight to watch. There is absolutely no jitter in panned shots, and the camera isn't overly sensitive to light changes. However, when zoomed in, you will notice that

the colour tends to blow out a bit around the edges of certain objects. Contrary to fear, the video quality or the still images don't get spoilt in burst mode.

The interface is probably the biggest change over the older gen HTC smartphones, and that's because Sense 4.0 seems to have been built from scratch. There is a conscious effort to tone down the visual punch of the UI, something that allows more focus on the redesigned look of Android ICS. However, you can't move between screens in a circular fashion, and once you reach screen 7, there is no auto swipe to screen 1.

Battery life is a disappointment. With a quad core processor under the hood and a 4.7-inch display to light up, the 1800 mAh battery will struggle to survive through the day if your usage is anywhere above minimal and light. With Wi-Fi or 3G connected, an hour of voice calls spread through the day, mails syncing and a bit of chatting on FB Messenger, the phone lasted just about a day.

This is probably the best Android smartphone you can buy, at least in terms of raw performance. The display is one of the best around, and so is the camera. Disappointments are the battery life, and HTC Sense that tends to crash or become sluggish at times. HTC have been at it for so long that it is a miracle that Sense still isn't as optimized as it should be! However, you will be buying a phone that is a premium product, feels that way, and performs that way, at least for the most part. Or else, just get an iPhone!

*Vishal Mathur*

**T**he HTC One X is a looker. Even though this falls squarely in the big-screen smartphone category, the One X isn't uncomfortable to use or unwieldy to hold. To understand most elements of the design influence, you need to look at the phone placed vertically on a flat surface, from side on. What you will also notice is slight curve on the top and bottom. The only issue with this slimness is that the 8MP camera protrudes out at the back, and when placed flat, the phone rests on a part of the clicker. While it is plastic throughout, we believe it is the unibody design that lends it the solidity.

A 1.5GHz quad core processor powers the HTC One X, and this is the first super phone to be launched in India. Not to forget, this is paired smartly with 1GB of RAM.

There is 32GB built-in storage, out of which the user gets about 25GB. However, there is no memory card slot

## Specifications

**Platform:** Android 4.0.3;  
**Processor:** Tegra 3 quad core 1.5GHz; **RAM:** 1GB; **Display:** 4.7-inch Super IPS LCD2 (1280 x 720 pixels); **Storage:** 32GB, no memory expansion slot; **Camera:** 8MP with 1920 x 1080p (1080p) videos; **Battery:** 1800mAh

## Contact

**HTC India**

**Email:** [www.htc.com/in](http://www.htc.com/in)

**Phone:** N.A.

**Price:** ₹37,899

8.0/10

Features ..... 8.0  
Performance ..... 8.5  
Build Quality ..... 8.5  
Value for Money ..... 6.5



## New iPad review

Don't forget to read an in-depth review of the New iPad on our website here: [http://dgit.in/apr\\_newipad](http://dgit.in/apr_newipad)



## BlackBerry Curve 9220

To know all about the new Curve 9220 smartphone, head over to our website: [http://dgit.in/apr\\_BB9220](http://dgit.in/apr_BB9220)

Bazaar

# New iPad

## One tablet to rule them all

The New iPad weighs 662gms where as the iPad 2 was 613gms, but what will make your jaw drop is the new Retina Display. Once you switch on the display, there is no going back to whatever tablet you used before this.

No matter how close you go to the screen of the New iPad or how much you zoom into the text, you will see no pixillation. The resolution of the 9.7-inch display is 2048x1536.

Some of the free apps that are optimized for the Retina Display are Readability, Pulse, Planetary and Remote. All of them looked absolutely stunning on the New iPad. Even watching 1080p videos on YouTube made



a world of difference between the 2 devices. Details on the New iPad look phenomenal.

We expected to see Apple's voice controlled personal assistant, Siri, make an appearance on the New iPad, but we were all left a little disappointed. Instead, Apple has added a simple dictation feature to the device. When we tried the dictation app with our Indian accent, we weren't very successful!

Games and apps take advantage of the upgrade in RAM. Load times are faster and the

apps feel snappier. The audio output from the mono speaker too has been improved from the iPad 2. Apple has significantly upgraded the battery in the New iPad to 6930mAh helping the device maintain the promised 10 hour life.

Apple has bumped up the camera on the iPad to 5MP the camera also shoots video in 1080p.

Is it worth the upgrade? Well if you are an iPad 1 user or a user of any other tablet, then yes. If you are an iPad 2 user, skip it.

*Sameer Mitha*

## Specifications

**Processor:** 1GHz A5X processor (Dual-Core); **RAM:** 1GB; **Graphics:** Graphics: Quad-Core GPU; **Display:** 9.7-inches (2048x1536 pixels), LED type IPS Display; **Storage:** 16GB, 32GB and 64GB; **Connectivity:** Wi-Fi and 4G (optional); **Battery:** 6930mAh

## Contact

**Apple**

**Email:** NA

**Website:** [www.apple.com](http://www.apple.com)

**Price:** ₹43,750 (16GB Wi-Fi + 3G), ₹58,500 (64GB Wi-Fi + 3G)

9.0/10

Features .....	8.0
Performance.....	8.0
Build Quality .....	9.0
Value for Money .....	8.0

## Specifications

**Platform:** BlackBerry OS7.1; **m:** 512 MB; **Display:** 2.44-inch, 320x240 pixel resolution; **Storage:** microSD slot up to 32GB; **Camera:** 2MP; **Battery:** 1450 mAh; **GPS:** A-GPS only; **3G support:** No

## Contact

**Research In Motion**

**Phone:** 1800-4253-730

**Email:** [tssasiapac@rim.com](mailto:tssasiapac@rim.com)

**Price:** ₹10,900

6.0/10

Features .....	6.0
Performance.....	6.5
Build quality .....	7.0
Value for money .....	6.0

# Blackberry Curve 9220

## Most inexpensive RIM device with good battery life

Billed as the most affordable Blackberry device in the country, the new Curve 9220 is the successor to the older - and hugely popular - Blackberry Curve 8520. The new Curve 9220 sports almost an identical size and design as the older 8520, but has physical buttons for Call, Menu, Return, and End which is a nice addition. As far as looks of the phone go, there's nothing special to write about. It's a signature Blackberry smartphone, albeit the most inexpensive.

The 9220's big battery (1,450 mAh) is perhaps the best thing about the phone. Based on my own usage pattern, this is the first Blackberry Curve I've used that actually gets through



a whole day on a single charge. One feature that's sorely missed is GPS, and with all those location-based apps out there, AGPS (assisted GPS, or using cell tower signals to approximate location) just doesn't cut it anymore.

Previous Curve 8520 users will find their experience on the Curve 9220 almost heavenly. It actually seems on par with the 9300 I have as well, and that's probably also to do with the fact that the 9220 has double the memory specs. In terms of call quality, this is a pretty standard BB experience - great voice clarity until you drop to about one-third signal strength. BB OS 7.1 feels good overall, but not as polished as some of its competitors.

Should you buy this phone? If you want a new BlackBerry on a budget, this is it. If all you want is BBM and you aren't app crazy, stick with the Curve 8520. If you want GPS and 3G on a budget, get the Curve 3G 9300.

*Robert Sovereign-Smith*

## Intel's Ivy Bridge

Intel has launched fourteen new 3rd Generation Core processors (Ivy Bridge), based on 22nm 3-D tri-gate fabrication technology.



## India Connected

India has beaten China, becoming the second largest market of the professional network LinkedIn, with 14 million users.

# Intel Core i7-3770K

## Finally an offering with integrated graphics worth talking about

Intel Sandy Bridge processors have been the favourite of mainstream system builders, but their integrated graphics namely HD3000 and HD2000 did not offer much in terms of gaming. With the first Intel Ivy Bridge processor, namely Core i7-3770K, we see an improvement on the gaming front.

The Core i7-3770K is based on a 22nm process incorporating tri-gate transistors popularly known as 3D transistors, which allows faster switching of states, and packing in more transistors.

The micro-architecture hasn't changed much from Sandy Bridge, you have the same 100 MHz base clock on

which most on-die components work.

We tested the Ivy Bridge processor on the Intel DZ77GA-70K motherboard along with 8 GB DDR3 RAM at 1600MHz

using Intel 520 series SSD. As expected the i7-3770K aced all the CPU intensive tests and gave scores that were 10 to 15 per cent more than that obtained on the Core i7-2600K. We overclocked it to 4.2GHz over air and got around 15 percent jump in the Cinbench score.

Intel HD4000 graphics gave very good frame rates in most of the games. Touching almost 30 FPS in *Dirt 3* at 1680x1050,



medium preset. *Resident Evil 5* at 1680x1050, med gave 40FPS. These scores were 10-15 FPS higher than those obtained with the HD 3000

But the AMD A8-3850's HD 6550D graphics still gave superior frame rates.

For Sandy Bridge users, it does not make much sense to upgrade to the i7-3770K. If you are looking purely at gaming prowess, then the A8-3850 crossfired with HD 6570 will give superior performance. But users who gave Sandy Bridge a miss, this processor makes for a great upgrade option.

Nimish Sawant

## Specifications

**Core Clock:** 3.5GHz; **Cores / Threads:** 4/8; **Turbo Clock:** 3.9GHz; **L3 Cache:** 8 MB; **Graphics:** Intel HD 4000

## Contact

**Intel**

**Website:** www.intel.com

**Email:** support@mailbox.intel.com

**Price:** ₹16,000

8.0/10

Features .....	8.0
Performance.....	8.5
Build Quality .....	NA
Value for Money .....	7.5

# CM Choix PowerFort 5600 mAh

## Ensures your gadgets never run out of juice

## Specifications

**Power Capacity:** 5600 mAh;

**USB Input:** DC 5V/1A;

**USB Output:**

**Type:** Li-Ion

**Weight:** 132 gm

**Recharge Time:** 6-8 Hours

## Contact

**Cooler Master India**

**Phone:** +91.9820207871

**Email:** sanket\_naik@cooler-master.com.tw

**Website:** www.cooler-master.in

**Price:** ₹3,500

If you roll around with a multitude of electronic gadgets – a laptop, latest high-end smartphone, tablet, etc. – and always face the issue of batteries dying on you, then you need a rechargeable power pack like the CoolerMaster Choix PowerFort 5600 mAh. The thing is quite light and compact, 3 inches wide and weighing 132g. It's easy to stow away in your laptop bag or backpack.

The Choix PowerFort has a silver strip on its top with four LED indicators and a button – the indicators show how much charge is left, while the button is a toggle switch when you connect a gadget to the portable battery pack. The package



includes two wires to charge devices through a mini and micro-USB port, respectively – the Choix PowerFort itself charges through a micro-USB port. The Cooler Master PowerFort lets you charge a variety of PMPs, smartphones (Android, iPhone, Blackberry, etc.), tablets (Android, iOS, etc.) and Bluetooth headsets.

As for its performance, the Choix PowerFort performed pretty well. Charging it took around 8 hours – a bit too long, we think, but just as advertised by the manufacturer to be fair – and we successfully charged a Samsung Windows Phone, Blackberry and Android smartphone. This almost drained out the PowerFort, while a phone took between an hour and 90 minutes to charge. iPads and iPods charged successfully as well, no problems at all. We liked the PowerFort, it's a must-have device for someone with loads of gadgets on the move.

Jayesh Shinde

7.0/10

Features .....	7.5
Performance.....	7.0
Build quality .....	7.0
Value for money .....	6.5

## Canon PowerShot SX240HS

Don't forget to head over to our website to read an in-depth review of the Canon Powershot SX240HS: [http://dgit.in/apr\\_SX240HS](http://dgit.in/apr_SX240HS)



## Zync Pad Z990

To know a lot more about the Zync Pad Z990, read an in-depth review of the ICS tablet at: [http://dgit.in/apr\\_Z990](http://dgit.in/apr_Z990)

Bazaar

# Canon Powershot SX240HS

## Great travel zoom compact but priced slightly higher

The Powershot SX240HS is an upgraded version of the popular compact travel zoom camera - the Powershot SX220HS. On first glance, the Powershot SX240HS looks very similar to its predecessor the SX220HS and also sports the same 12.1MP backside illuminated CMOS sensor. But there are some incremental changes such as the latest DIGIC 5 image processor, the optical zoom has been bumped up from 14x to 20x zoom and finally there are around four IS modes.

Build quality is quite sturdy. On the front face of the camera you have a finger grip whereas the thumb rest is missing on the rear side. The 3-inch 461,000



dot LCD screen is the same as the one seen on the SX220HS.

In our ISO tests, the detailing in the overall scene is quite good upto ISO 800, although one does notice a slight bit of noise at ISO 800 at 100 per cent crop, the image is still usable. Base ISO performance is very good. When compared with the SX220HS, we noted that the performance at ISO800 was better

for SX 240HS than SX220HS. We were quite impressed with the video performance of the camera specially indoors. While the SX 220HS had some noise issues indoors, the SX240HS suppresses that quite well. The low light mode shoots up the ISO to high levels thereby giving you a photo that is patchy with noise in many parts.

The SX240HS is a great travel zoom camera, but we just felt the pricing at ₹19,995 was a bit on the higher side despite the free 4GB SD card. Makes for an ideal purchase if you are looking for a good travel zoom on the market.

*Nimish Sawant*

## Specifications

**Sensor:** 12.1MP BSI CMOS;  
**Image Processor:** DIGIC 5;  
**Aperture range:** f/3.5 to f/8.0; **ISO Rating:** 100-3200;  
**Shutter speed:** 1/3200 to 15 secs; **Optical Zoom:** 20x;  
**Video Resolution:** 1920x1080, 1280x720, 640x480; **Battery rating:** 1000mAh

## Contact

**Canon India**  
**Phone:** 0124 4160000  
**Email:** [info@canon.co.in](mailto:info@canon.co.in)  
**Website:** [www.canon.co.in](http://www.canon.co.in)  
**Price:** ₹19,995

7.0/10

Features .....	7.5
Performance.....	7.0
Build Quality .....	7.5
Value for Money .....	6.5

# Zync Pad Z990

## A budget ICS tablet

## Specifications

**Platform:** Android 4.0.3 ICS;  
**Processor:** 1.2GHz; **RAM:** 1GB;  
**Display:** 7-inch (480 x 800 pixel resolution); **Storage:** 4GB with micro SD card slot;  
**Camera:** VGA camera for video calls; **Battery:** 3600 mAh

## Contact

**Zync Global Pvt. Ltd.**  
**Phone:** N.A.  
**Email:** [info@zync.in](mailto:info@zync.in)  
**Price:** ₹8,990

6.0/10

Features .....	6.0
Performance.....	6.0
Build Quality .....	5.0
Value for Money .....	6.0

This is a budget Android ICS tablet, and the build quality betrays the price tag of the tablet. It is plasticky all around, and that feels quite low quality. Build needs to be improved. On the spec sheet the Zync Z-990 looks impressive - a 1.2GHz processor and 1GB of RAM. Despite that, the benchmark scores and the usage experience clearly shows that the tablet isn't as quick as it could have been. However, the Z990 handles multi-tasking very smoothly. Zync should optimize the Z990 a little better to iron out the lag issue.

The 7-inch display has a 480 x 800 pixel resolution. The brightness levels are quite good,



even though the colour reproduction isn't vivid. In terms of video playback quality, both are the same. HD videos were smooth, and even jumping for-

ward and back in playback was handled very smoothly.

Annoyingly, the Z990's display hasn't been optimized. Put an app shortcut on any of the homescreen, and chances are they will only be half visible at the top. Quite clearly, a part of the display wants to escape! Battery life is very similar to most budget Android tablets out there - 5 hours of continuous video.

This is an ICS tablet that looks quite impressive on the spec sheet. However, in real life, it has been a disappointment. The build quality needs a relook. Little niggles like an un-optimized display, no Bluetooth and no volume rocker limit the tablet experience.

*Visbal Mathur*



**Auxus AX02**

Read an in-depth review of the AX02 ICS tablet here to see what's hot about this budget Android tablet: [http://digit.in/apr\\_AX02](http://digit.in/apr_AX02)

**Airtel HD Recorder**

Read more on the features and performance of the Airtel Digital HD recorder here: [http://digit.in/apr\\_airtelDTV](http://digit.in/apr_airtelDTV)

# iberry Auxus AX02 tablet

## The ideal budget ICS tablet

The front of the device houses the 7-inch display with a resolution of 480x800. The front also has the 0.3MP camera and a home button. The rear-facing snapper is 2MP. The performance of the camera is average.

In terms of connectivity, all the ports are at the bottom of the device. It has a mini USB port, mini HDMI out, a headphones jack, microSD card slot, DC in and the power button. On the top of the device (when held in landscape mode) is the volume rocker.

Straight out of the box, the device runs on Android 4.0.3 Ice Cream Sandwich. Under the

hood, the device is powered by a 1GHz Cortex A8 CPU and has 1GB RAM. The capacitive screen on this device has a



better response and is smoother than the competition. Playing Angry Birds on the device was a fun experience. The device is also capable of 1080p video playback.

The tablet also comes with a mini USB to full USB

adaptor enabling the device to connect to a 3G dongle to connect to the Internet. There is no Bluetooth support on the device and this is a letdown.

You can expect the device to last for 4 to 6 hours at a stretch depending on your usage.

The iberry Auxus AX02 is a good performer when compared to the competition in the same price range. If you are in the market to pick up a tablet in the ₹10,000 price range this tablet should definitely be on your list.

*Sameer Mitha*

## Specifications

**Type:** Tablet; **Processor:** 1GHz Cortex A8 CPU; **RAM:** 1GB; **Display:** 7-inches (480x800 pixels), LCD Display; **Storage:** 4GB internal expandable via MicroSD; **Connectivity:** Wi-Fi and 3G (via an external dongle); **Battery:** 4000mAh

## Contact

**Phone:** 1800 102 6242  
**Email:** Support@iberry.asia  
**Website:** www.iberry.asia/auxus\_ax02.php  
**Price:** ₹9,990

7.5/10

Features .....	6.5
Performance.....	7.0
Build Quality .....	7.0
Value for Money .....	8.0

## Specifications

**Type:** DVR set top box;  
**Connectivity:** HDMI, Component, composite, optical audio out; **Storage:** 320GB drive; 2 USB ports; LAN port; Universal remote

## Contact

**Airtel Digital TV**

**Phone:**

**North Hub:** 0124 4448080

**West Hub:** 020 44448080

**South Hub:** 080 44448080

**Email:** digitaltv@in.airtel.com

**Price:** ₹4,990 (upgrade) and ₹5,990 (new connection)

8.0/10

Features .....	8.0
Performance.....	9.0
Build Quality .....	8.0
Value for Money .....	8.0

# Airtel Digital TV HD Recorder

## A basic set top box doesn't cut it anymore

A DVR is essentially a step up from the standard STB, allowing you to pause, record and rewind Live TV channels. Airtel has the Digital TV HD Recorder. Tata Sky HD+ has some tough competition!

You can schedule the pause for a maximum of 90 minutes at a time. For recording, there are three basic ways of doing it - schedule a recording, do an on-the-fly recording and set a series link for daily/weekly TV shows. There are dual cables going into the DVR from the antenna, allowing multitasking - record one channel while browsing channels like you normally

would, or set recording on two channels simultaneously. For recording, the DVR can be switched on, or left in stand-by mode. In case the recording does get interrupted (power failure etc.), it will resume immediately as soon as the DVR restarts.

With the latest update, the UI looks very similar to Tata Sky's UI. The uncluttered look is very welcome, and it is snappier as well. When you switch off the DVR, and switch it on the next time, it starts off at the channel you were last viewing. Airtel provides a universal remote, which reduces the need to use your TV's remote.

There is no going back to a standard STB once you use a DVR. Now, your choice should ideally be between Airtel's Digital TV HD Recorder and Tata Sky HD+. Where Tata Sky has the advantage is a bigger hard drive, Airtel offers more HD and SD channels on the platform.

*Visbal Mathur*



## LG 42LW6500

To read an in-depth review of the 42LW6500 Cinema 3D TV, head over to our online website by hitting this link: [http://digit.in/apr\\_LW6500](http://digit.in/apr_LW6500)



## Portronics Limebox

Portronics Limebox is an Android internet media box priced at Rs. 8,499, with Android Market access and 4GB inbuilt <http://digit.in/Inqgvz>

Bazaar

# LG 42LW6500 Cinema 3D

## A 3DTV sans the clunky glasses

**T**his 42-inch 3D LED television has a Full HD The edge-LED spec has the Local Dimming feature which helps improve black levels. The passive glasses are noticeably lighter and slimmer than the active shutter ones. However, results were a mixed bag. we got a splitting headache after 15 minutes of watching The Dark Knight in 3D. The wider-angle capability is something that will work when families get together to watch 3D TV.

We got a contrast ratio of 700:1, which is definitely good. With HD content, the crispness really kicks in, and if you have set the Black levels to the deepest and



Advanced contrast to low, you will be able to appreciate the overall colour depth. Blu-ray playback was excellent - no artifacts or edge noise.

When up-converting to 3D, the depth surprised us, in a good way. But, with up-converted content, there will be issues - ghosting and a definite

loss of crispness, but only at certain times. However, original 3D played back flawlessly.

The Magic remote depends on motion gesture to help you navigate the menu on the screen. We found this will very useful

when browsing web pages on the built-in web browser.

The biggest complaints against 3D television - headache and eyestrain have been addressed by LG by implementing passive glasses. We still recommend a demo before buying.

*Vishal Mathur*

## Specifications

**Display size:** 42-inches; **Panel type:** edge-lit 3D LED with Local Dimming; **Resolution:** 1920 x 1080 with 2D->3D conversion; **AV connectivity:** HDMI/ component/ composite, optical audio; **Web:** LAN port, Optional Wi-Fi adapter

## Contact

**LG Electronics India**

**Email:** N.A.

**Phone:** 18001809999

**Price:** ₹1,04,900

7.5/10

Features .....	8.0
Performance.....	7.0
Build Quality .....	7.0
Value for Money .....	7.5

# Sennheiser HD 439

## Surprisingly good, and don't cost a bomb

## Specifications

Closed circumaural design;  
Frequency response- 17-22500  
Hz; Sound pressure level  
(SPL)- 112 dB; Impedance-  
32 z; Cable length- 1.4 m;  
Connector- 3.5 mm

## Contact

**Sennheiser India**

**Phone:** 0124-4187800

**Email:** [info@sennheiserindia.com](mailto:info@sennheiserindia.com)

**Price:** ₹4,490

7.0/10

Features .....	6.5
Performance.....	7.0
Build Quality .....	7.5
Value for Money .....	7.0

**S**ound is something that always divides opinion. It is quite difficult to find headphones that manage to keep most of the demographic happy. Sennheiser's HD 439 does come incredibly close to doing that and at a price that doesn't burn a hole in the pocket.

From the outset, the 439 does have a chunky design, but is quite lightweight. It fits well over the ears, and the generous cushioning helps if you are going to wear these for a long time. During tests, we wore them for 4 hours at a stretch, and they weren't the least bit uncomfortable. The generous space for the ears to fit in is very welcome. While they aren't noise cancel-

ling, the snug fit does block out the ambient noise considerably.

Like most Sennheisers' the HD 439 isn't bass heavy. But critically, the thump response is tight. This headphone focuses more on low-mids, and they are incredibly clear. Having said that, we did not at any point of time feel that they are too sharp, or unbearably treble heavy on the ear. Which is why we had even specified earlier that the HD 439 does seem to be walking the middle path. Getting back to the point of bass, it doesn't really show its hand unless you want it to. On an iPod Touch

with the No equalizer setting, the sound was soft and vocals clear. You could distinctly make out the bass, but for the purists, it was just the perfect dollop. Change the equalizer setting to bass heavy, and the thump does come in a lot more quantity. However, at no point did the HD 439 become "bass heavy".

The Sennheiser HD 439 has almost everything going for it. It isn't pricey, it is very comfortable to wear and the sound should appeal to anyone and everyone who doesn't want a bass heavy set of cans.

*Vishal Mathur*





### Lumix DMC-GF5

Panasonic has announced a new mirrorless, interchangeable lens compact digital camera, with a 12.1MP Live Mos sensor.

### R.I.P Sync4BlackBerry

Google is shutting down its Google Sync for BlackBerry service, beginning June 1, 2012, and other mobile web apps.

## Nokia 701

### The last of the Symbian's?

**Y**ou may want to think twice before picking up a touchscreen phone from Nokia that isn't Windows Phone 7. But the Nokia 701 is worth a second glance. It has a 3.5-inch display that does look quite good. A 1GHz processor powers the device making it snappy. The OS is an upgraded version of Symbian 3 called Symbian Belle.

The biggest addition to the device is NFC (Near Field Communication). The fact that the device is NFC enabled makes it future ready but the Symbian Belle OS does have a lackluster feel when compared to iOS and Android.

The device does come preloaded with apps such as

YouTube, Vingo, Quick Office and Adobe reader to name a few.

In terms of connectivity, the device has the camera button, lock button and volume buttons on the right. The top has the headphones jack, micro USB port and the power button. The touchscreen on the device is nice and well responsive but the layout of the keyboard is underwhelming. It is easy to kill open applications by simply long pressing the home button and closing the open apps.



The battery life of the device is good to run for more than a day but it is a bit of a let down when compared to the standard Nokia has set. The 8MP camera captures good images but you will give a hard time focusing at times, especially in close up shots.

Overall, its hard to recommend the Nokia 701 (unless you are a Nokia fan boy) at this price point especially since you can get yourself a great entry level Android smartphone for the same price.

*Sameer Mitha*

### Specifications

**OS:** Symbian Belle; **Processor:** 1 GHz ARM11; **RAM:** 512MB; **Display:** 3.5-inch LED-backlit IPS TFT (640x360 pixel); **Storage:** 8GB internal + microSD card slot; **Camera:** 8MP with 720p HD videos, VGA front facing; **Battery:** 1300 mAh

### Contact

**Nokia India**

**Email:** NA

**Website:** www.nokia.com

**Price:** ₹17,850

6.5  
10

Features .....	6.0
Performance.....	6.5
Build Quality .....	8.0
Value for Money .....	6.0

## ASUS GeForce GTX 680 (2GD5)

### The march to GPU stardom continues...

### Specifications

**Base Clock:** 1006MHz;

**Boost Clock:** 1058MHz;

**Memory Bandwidth:** 256-bit;

**Memory Clock:** 6008MHz;

**Display ports:** 1xHDMI, 1xDisplayPort, 2xDVI-D

### Contact

**ASUS Technology Pvt Ltd**

**Phone:** 1800 209 0365

**Email:** reachus@asus.com

**Website:** www.asus.in

**Price:** ₹38,000

**N**VIDIA GeForce GTX 680 was launched towards end March and the card we tested, ZOTAC GTX 680 beat the then single GPU king in most of the tests. The fact that GTX 680 is the best single GPU card on the market right now is not disputed. So let us check out how much of an improvement ASUS GTX 680 has over the card we tested last month.

Design-wise it looks very similar to the NVIDIA reference card, with only the ASUS branding and a green and white line running across the card differentiating it. The specifications are stock as well with a base

clock of 1006MHz and Boost Clock of 1058MHz. It sports a 2GB GDDR5 RAM and has four display ports. It bundles in a GPU Tweak



utility which allows you to over-clock the card.

When it came to performance, the card comfortably beat the HD 7970 across all tests. As compared to the ZOTAC GTX 680, the ASUS card, edged past

in some tests and vice versa. Only in Resident Evil 5 did we see a huge jump between the cards. Scores on STALKER:

Call of Pripyat were very similar with the ASUS card giving 98.5 FPS at 1080p Ultra settings (ZOTAC GTX 680 gave 98.8 FPS).

The ZOTAC card though ran about 5 degrees Celsius cooler than the ASUS GTX 680.

The launch price was a whopping ₹46,000 which was ridiculous. But they have got it down to ₹38,000 now, which is still a good Rs. 6,000 more than the ZOTAC GTX 680. So we would still recommend that card over this based on pricing.

*Nimish Sawant*

7.5  
10

Features .....	8.0
Performance.....	8.5
Build Quality .....	8.5
Value for Money .....	5.0



## Spam-Spewing Nation

India has surpassed the U.S. to become the top spam-spewer, relaying roughly 1 in 10 spam e-mails, says a Sophos report.



## One S in May

HTC's mid-range Android 4.0 ICS offering, the HTC One S, is reportedly due only in May in India.

Bazaar

# ASUS Radeon HD 7850 DC2

## Cool customer with good scores

The first thing that strikes you about ASUS HD 7850 Direct-CUII is its design. The front face looks like any other DirectCUII cards we have seen in the past, but once you turn the card around, you will notice that the PCB section is shorter than the reference design. The passive cooler and the second fan on top of it protrudes a few inches beyond the PCB (length-wise). A 6-pin PCIe extension cable is pre-installed, as the cooler blocks entry to the 6-pin power connector.

The ASUS HD 7850 Direct-CUII is a factory overclocked card with a 975MHz core clock



(up by 115 MHz from stock) and 1250MHz memory clock (up by 50 MHz on stock). ASUS bundles in the GPU Tweak utility for overclocking the card by adjusting clock speeds as well as voltages.

We tested the card using Intel Core i7-3960X at stock speeds with 8 GB of DDR3 RAM at 1333MHz. Scores obtained are quite decent for this mid-range

card. 3D Mark 11 gave an overall score of 1844 marks at Extreme settings. STALKER: Call of Pripyat gave around 63 FPS at 1080p ultra settings and Lost Planet 2 gave around 41 FPS at 1080p max settings. The scores were comfortably better than the older generation HD 6870 and GTX 550Ti. The maximum temperature it reached was around 65 degrees Celsius (from an idle temp of 33 degrees) which is quite good considering the HD7970 reaching around 78 degrees on load.

Great card but we still feel the pricing should improve.

*Nimish Sawant*

## Specifications

**Base Clock:** 975MHz; **Video Memory:** 2GB GDDR5; **Memory Clock:** 1250MHz; **Memory Interface:** 256-bit;

## Contact

**ASUS Technology Pvt Ltd**  
**Phone:** 1800 209 0365  
**Email:** reachus@asus.com  
**Website:** www.asus.in  
**Price:** ₹18,000

7.0/10

Features ..... 7.0  
Performance ..... 7.5  
Build Quality ..... 8.0  
Value for Money ..... 6.5

## Specifications

**Screen:** 13.3-inch glossy, 1366x768; **CPU:** Intel Core i5-2467M 1.6 GHz; **RAM:** 4 GB DDR3; **HDD:** 256 GB SSD; **GPU:** Intel HD 3000; **OS:** Windows 7 Home Premium 64-bit; **Ports:** 2 x USB, mini DisplayPort, 3.5 mm headphone mic; **Weight:** 1.35-kg; **Warranty:** 3 years (hardware + software)

## Contact

**Dell**  
**Website:** www.dell.co.in  
**Phone:** 1800-425-4026  
**Price:** ₹79,900

9.0/10

Features ..... 8.0  
Performance ..... 9.0  
Build Quality ..... 9.0  
Value for Money ..... 8.5

# Dell XPS 13

## Dell's 1st ultrabook is a big hit!

Just like the Asus Zenbook UX31E, the Dell XPS 13 is yet another ultrabook that steps very close to mimicking the Apple MacBook Air's look and design. The Dell XPS 13 has a plush silver-grey metal screen lid that complements its dark coloured base. The Dell ultrabook features rounded edges and minimalistic design to heighten its overall elegance and appeal. It's a premium laptop through and through.

Dell XPS 13 ultrabook has a Corning Gorilla Glass display; not only this, but the XPS 13's bottom panel is made of carbon fibre. This combination of metal and carbon fibre lends the Dell

XPS 13's frame a degree of robustness that defies its super-slim profile. Its keyboard is similar to that of the Adamo XPS ultraportable, backlit and well-crafted, sporting chiclet-styled keys that are great to type on. But its trackpad is a work-in-progress, just like any other ultrabook available in the market today.



The Dell XPS 13 comes with a powerful hardware feature set that can rival any ultrabook. It's the fastest ultrabook we've reviewed so far, steamrolling past every other ultrabook we've reviewed in our synthetic benchmarks. It had the fastest cold boot times among all other ultrabooks we've reviewed -- a consistent 11 to 12 seconds. Watching HD movies was a good overall experience on the XPS 13. And with its battery lasting 2 hours 20 minutes in our battery test, expect over 5 hours of real-world usage.

Overall, this is one of the best ultrabooks out there.

*Jayesh Shinde*

**HTC Sensation XL**

Read an in-depth review of this interesting HTC Android smartphone here: [http://digit.in/apr\\_HTCxl](http://digit.in/apr_HTCxl)

**Karbonn SmartTab 1**

Karbonn Mobiles has announced it will be launching a 7-inch Android 4.0.3 ICS budget tablet in the Indian market soon

# HTC Sensation XL

## Competent phone let down by the price tag

It's a big phone, and quite clearly feels that way. HTC has smartly thinned the bezel on the right and left side of the display, to shave off precious mm. While it is plastic all through, the build quality is just okay. It doesn't have the premium feel that the black and red finish of the slightly smaller Sensation XE offered.

A single core 1.5GHz Scorpion processor with 768MB RAM powers the Sensation XL. What you should expect is basic performance. Despite having multiple apps open in the background, the phone doesn't slow down. However, when you compare the benchmark scores head to head with the Galaxy Note, the Sensation XL takes a beating.

Reason: the inferior powertrain.

In the HTC Sense 3.5 lock screen, you have four customisable app shortcuts, and dragging the icon into the semi-circle ring takes you directly to that app. The 4.7-inch Super LCD display is one of the best around. While it isn't as vivid as the Super AMOLED family, the colour depth is still good. The crispness of the text helps quite a bit when reading mail or articles in the web browser.



With an hour of calling, 3G or Wi-Fi connected throughout and Facebook, Twitter, Mails and Whatsapp running, the XL's battery lasted a day. If you're a heavy user, we suggest carrying the charger with you.

We think the price tag of the XL is a bit too steep. For the same amount of money, you get the more powerful Samsung Galaxy Note. Or even consider Motorola Razr, Samsung Galaxy S2 and Sensation XE.

*Visbal Mathur*

### Specifications

**Platform:** Android 2.3;  
**Processor:** Scorpion 1.5GHz single core; **RAM:** 768MB;  
**Storage:** 16GB, no memory card slot; **Camera:** 8MP with 720p video; **Battery:** 1600 mAh

### Contact

**HTC India**  
**Email:** [www.htc.com](http://www.htc.com)  
**Price:** ₹37,899

6.0  
10

Features .....	6.0
Performance.....	7.0
Build Quality .....	7.0
Value for Money .....	5.0

# Samsung Series 5 NP530U3BI

## This is what laptops were supposed to be

### Specifications

**Processor:** Intel Core i5-2467M @ 1.6GHz; **RAM:** 6GB; **Display:** 14-inches, 1366x768 pixels; **Storage:** 1TB HDD; **Graphics:** AMD Radeon HD 7550M (1GB); **Optical drive:** Yes; **OS:** Windows 7 Home Premium (64-bit)

### Contact

**Samsung India**  
**Phone:** +91 22 3030 8282  
**Price:** ₹54,390

7.0  
10

Features .....	7.5
Performance.....	7.0
Build Quality .....	7.0
Value for Money .....	7.5

Despite a tapered design towards one end, the Series 5 doesn't come across as a normal ultrabook. However, it looks extremely classy. The grey matte aluminum finish doesn't catch fingerprints, dust and scratches like glossy surfaces do. The build quality is solid and materials used are better than what we expected.

It houses a 1.6GHz Intel Core i5-2467M paired with 6GB RAM. The performance is quite good, and the laptop doesn't slow down while multitasking. The 14-inch display has a resolution of 1366x768 pixels. Samsung

deserves a pat on the back for ensuring that it's non-reflective.

The keyboard is on a slightly depressed platform. Key size is bigger than what we see in the Macbook, and with adequate palm rest real estate. However, the key press extracts a very muffled (soft, if you may) sound, a contrast to

the MacBook's chunky sound. A big touchpad means multi-touch gestures will be comfortable to use.

The battery lasts about three hours in our standard-battery test. Under standard daily usage, it will last you a bit more than 4.5 hours easily.

The 1TB hard drive is something that can't be overlooked, and neither can the USB 3.0 ports, integrated optical drive and a very comfortable display and keyboard. Dedicated graphics means this one will do a bit of gaming as well.

For this price, what you'll get is essentially a mid-range laptop that has focused more on being slim and portable.

*Visbal Mathur*



# Bazaar

QUICK  
INSIGHTS  
FROM INDEPTH  
TESTS

The Digit Test Centre receives hundreds of products every month. Each of these products is put through a series of tests, and is finally given a verdict. The final score is arrived at after considering a number of factors and evaluating them in terms of features, performance, value for money, build quality, and, in the case of software, even ease of use.

For better understanding of our ratings, here's a quick guide to our overall score

- 1.0 - 3.0 - Extremely poor product. Keep away!
- 3.5 - 5.0 - Strictly OK. Not recommended
- 5.5 - 6.5 - Decent product. Go for it, but there may be better products out there.
- 7.0 - 8.5 - Very good product. Highly recommended.
- 9.0-10.0 - Ground-breaking product. We've never seen anything like it before. A definite must buy!



## Google Maps for Android v6.5

Google updated its Google Maps for Android to version 6.5, adding a redesigned Navigation menu for devices with Android 4.0+ platform <http://dgit.in/HrcwzK>

### DIGITAL CAMERA



#### Canon Powershot A3400IS

Price: ₹9,995

### BLUETOOTH HEADSET



#### Jabra Wave Red

Price: ₹3,899

### SPECIFICATIONS

Sensor ..... 16MP CCD sensor  
Image Processor ..... DIGIC 4  
Aperture range ..... f/2.8 - f/6.9  
ISO Range ..... 100-1600

Type ..... Bluetooth headset  
Version ..... 3.0 with A2DP, EDR and eSCO  
Weight ..... 13 grams  
Talk time ..... 6 hours

### TEST CENTRE RATINGS (All Scores out of 10)

#### Features ..... 6.0

Has a 3-inch touchscreen, can shoot video upto 720p, lacks manual modes. Comes in a very compact form factor.

#### Performance ..... 6.0

ISO performance is great upto ISO400, and goes downhill from ISO 800. Low light output was not upto the mark. HD videos are decent if shot outdoors.

#### Build quality ..... 6.0

Plastic body feels cheap to touch, but sturdy device. The placement of buttons on the navpad is not great and has average feedback.

#### Value for money ..... 6.5

At ₹9,995 makes sense for beginners.

#### Features ..... 8.0

The Jabra Wave that we had reviewed earlier was no slouch, and the Wave Red builds on that with the additional A2DP feature.

#### Performance ..... 7.0

Excellent for the most part - call clarity is quite good, battery life is excellent. However, suffers a bit in windy environments.

#### Build quality ..... 8.0

Looks fantastic. The Red colour brings out a sporty side of the headset, already graced with a unique design.

#### Value for money ..... 7.5

We would not consider this pricey at all.

### WE SAY

6.0

Very compact camera, with responsive touchscreen offering adequate features for beginners. It offers a 5x optical zoom. Performance is great upto ISO 400 and meant for shooting outdoors. Low light performance is not upto the mark. At ₹9,995 this camera is ideal for beginners, who want a no-frills camera. You get a 4GB SD card free with the camera. If you want more features and manual options at this price, the older Powershot SX150 IS makes a better purchase option.

7.5

This is one of the smarter Bluetooth headsets we have used, and scores highly on comfort. Add a unique design and an eye catching colour, and the package is complete. The difference between this and the Wave headset we had reviewed earlier is the addition of the A2DP feature for streaming tunes from your phone. Considering the performance, feature and looks, we think it makes for a good value for money. We believe this is the headset to buy, unless you don't like red or are a McLaren F1 supporter!





## Free games for Android

We count down 10 free games that you must play if you own an Android smartphone or tablet <http://bit.ly/Ib7wPL>

## Free cloud storage options

Want to shift your important data on the cloud. We take a look at 5 free options available for users in the market <http://bit.ly/HwdtFO>

## BLUETOOTH HEADSET



## Plantronics Marque M155

Price: ₹3,590

## CELLPHONE



## HTC Rhyme

Price: ₹25,950

## PORTABLE PC



## ZOTAC ZBOX Nano ID61 Plus

Price: ₹22,000

## TABLET



## HCL Me Tablet U1

Price: ₹7,999

## SPECIFICATIONS

Type.....Bluetooth headset  
Version.....3.0 with A2DP  
Weight.....7 grams  
Talk time.....5 hours

Specifications.....Android 2.3.5  
Processor.....Qualcomm MSM8255  
RAM.....768MB  
Display.....3.7-inch S-LCD

Processor.....Intel Celeron 867  
RAM.....2 GB DDR3  
HDD.....320 GB @ 5400RPM  
Display ports.....HDMI, DisplayPort

OS.....Android 4.0.3 ICS  
Processor.....ARM Cortex A8 1GHz  
RAM.....512MB  
Display size.....7-inch

## TEST CENTRE RATINGS (All scores out of 10)

## Features.....7.5

It comes with A2DP, but really takes the cake with the ability to respond to voice commands.

## Performance.....7.0

Very clear call clarity and sufficiently loud as well. Doesn't suffer in noisy environments. Could do with a bit less treble heavy nature at higher volumes.

## Build Quality.....8.5

Classy looks, comfortable to wear for longer durations.

## Value for money.....7.5

Definitely worth considering, along with the Jabra Wave Red.

## Features.....7.0

Attractive and compact design. Vibrant display with sense 3.5 UI skinned over Android 2.3.5. HTC Charm is a useless accessory.

## Performance.....6.5

An overall good performer. No access to the battery is the biggest downer.

## Build Quality.....7.0

Overall plastic with a metal strip on the rear giving the device a good build.

## Value for money.....6.0

Consumer is spoiled for choice at the ₹25,000 price point.

## Features.....7.5

Sports a WiFi module, USB 3.0 ports, HDMI out and houses a Celeron 867 processor which is better than Pinetrail platform.

## Performance.....7.0

Performs better than the AMD 450 as well as Intel D2700 processor based ZBOXes.

## Build Quality.....7.0

Very sturdy build although the glossy surface is a dust and fingerprint magnet.

## Value for money.....7.0

Pricing is very attractive if you have basic computing needs.

## Features.....5.0

Sports ICS OS and has a variety of connectivity options. Lacks Google Play and has an HCL store.

## Performance.....5.0

A bit sluggish when compared to the competition. Below par performance.

## Build Quality.....6.5

Well built with a white glossy plastic finish giving the device an elegant look but making it a fingerprint magnet.

## Value for money.....4.0

At ₹7,999 it's the cheapest ICS tablet but definitely not the best.

## WE SAY

7.5

The design and colour combination are one of the classiest combos we have seen on a Bluetooth headset in a long time. The clean look for the most part should go down well with most potential buyers. Very light as well, but the Jabra Wave Red takes a slight advantage in terms of in-ear comfort over long durations. Battery life is neck and neck too. The Plantronics Marque M155 is for you if you like the idea of voice commands to control the headset.

7.0

Hard to recommend a single-core smartphone in a day ruled by the dual cores. The camera has some nice effects. Apps run smoothly until you start some heavy multitasking. The Rhyme is expected to receive the ICS update soon, making it future proof. If you are in the market to pick up a device close to the ₹25,000 mark, we suggest that you take a look at the Sony Ericsson XPERIA Arc S, HTC Sensation or the Nokia Lumia 800 before making your buying decision.

7.0

This can be used as a proper computer system if you only plan to use mainly office suite and surf the net. Watching HD movies is a great experience. Just hook it up to your HDTV and get more variety than any smart TV. With the Windows Media Centre remote, it works great as an HTPC. Not meant for gaming though. HDD is quite slow with transfer speeds. You might want to invest in a faster HDD. If you are willing to invest in a better HDD, then get the ID61 version which comes without the 320GB HDD at a mere ₹15,500.

5.0

Overall, the HCL Me Tab U1 is an average performer when compared to the competing ICS budget tablets. The lack of the Google Play store is the biggest downer of this device. The overall performance was below par and the occasional lag really hampers the experience. If you are in the market to pick up a tablet in the sub ₹10,000 price range, we suggest you take a look at the competition first. Not only because they offer access to the Google Play Store straight out of the box, but also because they are overall better performers.

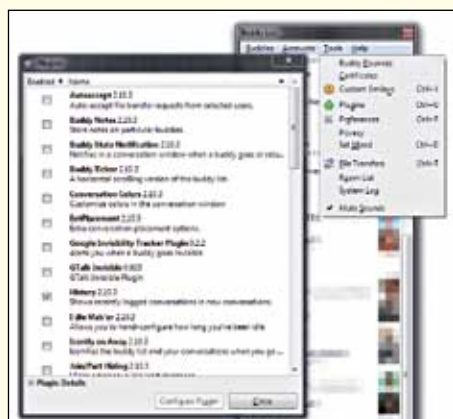
# PIDGIN

Instant Messaging clients are not as popular as they used to be in the heyday of the technology. Now most networks will let you chat right in the browser, making it unnecessary to download and install an IM client. Even so, for many purposes they're a lot better than the plain vanilla clients you get in the browser.

For one, applications like Pidgin can handle multiple accounts from multiple services – no switching tabs to see where you got the latest message. You get a consolidated list of contacts, a single application to manage all your instant messaging account, and it even works without the browser open. With Pidgin you can even chat in restricted environments, by configuring it to use a proxy. What's not to like?

## ■ Pidgin plug-ins

One of the strongest features of Pidgin is that it supports



A list of some of the plug-ins in Pidgin

plug-ins. These can do anything from adding support for a network that Pidgin doesn't support by default to measuring how fast you're typing, or even processing chat messages via a custom command line app.

A number of plug-ins come with Pidgin by default, and many many more are available as third-party add-ons. A number of the plug-ins that ship



Pidgin .....	25
Laptop battery .....	27
Optimising your mobile device .....	28
Photoshop CS6 Beta .....	28
Manage your Game Save files effectively .....	30
Manage Firefox profiles .....	31

{ Tips & Tricks has its own page numbers, and does not follow the rest of the magazine's page numbers. This is done to ensure that you can cut out and save T&T in a separate folder for later reference. }

with Pidgin aren't enabled by default, but add useful functionality if enabled.

Installing plug-ins is quite simple, often it's just a matter of downloading the setup program and running it. Some plug-ins however don't set themselves up and you must install them manually. This isn't hard either, your plug-ins are .dll file (or .so files on Linux) located in the plug-in directory in the Pidgin install folder. You'll simply need to extract the

plug-in file in this directory and enable it in Pidgin's plug-ins list.

The Pidgin plug-in list is accessible by clicking on the "Plugins" entry in the "Tools" menu. Here you'll see a list of plug-ins, the plug-in version number and a short description. You can enable/disable plug-ins from here; for some plug-ins, there's an option to configure their settings.

## ■ Freak friends out by replying before they can send a message

You're probably thinking, if you reply before someone even sends a message, is it even replying? Aren't you just starting the conversation?! Fear not, all will make sense in a little while. You might have noticed



You'll get a notification even when you're not talking to them

that when a friend starts typing a message to you when you're chatting with them, you'll get a notification along the lines of "XYZ is typing...". However, you only get these notifications if your chat window is open, and not otherwise.

What the 'Psychic Mode' plug-in does is enable these notifications even if you're

not actively chatting with someone. The end result? When someone starts typing a IM message to you in order to start a conversation, you'll get a notification even before they've sent you the message!

As long as their message isn't something as short as "hi" you'll probably have enough time to freak them out by sending a message while they're still typing.

## ■ Get notifications on Windows using Snarl

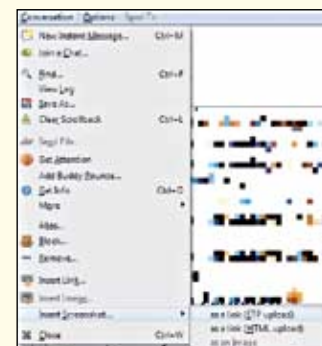
Windows sadly doesn't have an inbuilt notification system, but there are worthy third-party solutions such as Growl and Snarl. These applications run in the background, and any application that supports either Growl or Snarl can use them to display notifications. Quite a few applications do, and many others have plug-ins to add support.

For this, you'll need to download and install Snarl, and download and install 'PidginSnarl', the plug-in for Pidgin that lets it connect to Snarl to show notifications.

You can get Snarl from <http://snarl.fullphat.net/> and the Pidgin plug-in from <http://tthan-ghun.de/Projects/PidginSnarl/>

## ■ Quickly send screenshots

If you often have to guide people through troubleshooting their computers, pictures can speak more than



Send screenshots quickly



a thousand words. It's rather painful and annoying to first take a screenshot, then upload it somewhere and then send a link – or send it in an email in parallel to the chat conversation.

The 'Send Screenshot' plug-in is very handy in this regard. It makes sending screenshots a breeze by integrating the screenshot and remote upload capabilities into Pidgin itself. All you need to do is click the screenshot option and it will let you select the area to shoot. It will then automatically upload the screenshot – you can select from a number of providers or upload it to your own FTP server – and paste the link in the chat window. Download the Send Screenshot plug-in from <http://code.google.com/p/pidgin-sendscreenshot/>

## Eliminate typos

If you tend to make a lot of mistakes while chatting (don't worry we all do) the 'Text Replacement' plug-in can save you from yourself. This useful plug-in lets you enter a list of



Assign words to replace as you type

spelling (or other) mistakes and corrections, and automatically performs the replacement as you type.

This might seem like a pain, but it actually already comes with a huge list of common mistakes, such as typing 'teh' instead of 'the' 'i snot' instead of 'is not'. It also thankfully corrects abbreviations such

as 'ur' for 'you are' and 'cuz' for 'because'.

Of course, this can make it annoying if you really need to type something that's commonly a misspelling for another word.

This plug-in is included with Pidgin by default, but is not turned on.

## Record your chat history

Pidgin also includes support for recording your chat history, and if you want, you can enable a plug-in that will show recent chat messages when you start a conversation with someone.

While Gmail already records all your chat conversations, it also lets you turn off recording chat messages if any one of the chatting parties so wishes. Pidgin on the other hand records all chat messages, even from those who are "Off the record" on Gmail.

You can find these chat messages – and back them up if you want – at the following location: %appdata%\purple\logs\

There'll be a separate folder for each protocol (Gtalk and Facebook are 'jabber'). Within that is a separate folder for each account using that protocol, and within that a separate folder for each contact they've communicated with. The logs are simple HTML files that can be opened in any browser.

## Show some offline users

You all might know some people who prefer to stay "invisible". It can be difficult starting a chat conversation with such people since they're usually listed as offline. So you either need to display all contacts, offline and online and hunt for these

people in a long list, or you need to manually start a chat conversation by entering their email (autocomplete helps here).



Invisible no more

And then you have a third option. You can selectively let contacts show up in your list even when offline. All you need to do is right-click on such a person's contact entry and click "Show when Offline". Such people will then always be listed among your contacts even when offline.

## Save your chat session

If you usually have multiple IM windows or tabs open, and have long-running conversation, you might find value in being able to save the state of your chat windows so you can resume the session after restarting your computer, or updating Pidgin, or after an inadvertent crash. This functionality is expertly provided by the 'SessionSave' plug-in. Download this plug-in from <http://somewhere.fscked.org/proj/sessionsave/>

## Start Pidgin on Windows startup

This seems like a pretty simple request, and Pidgin seems like the kind of application you'd want to have running when you start your computer. However, when you check out the Pidgin preferences, you'll find such an option is curiously missing. The option is there though, just not where you'd expect.

Pidgin includes a 'Windows Pidgin Options' plug-in which offers a number of important Windows-specific options. It's here that you can enable and configure Pidgin to start auto-

matically when you start your computer.

## Dock Pidgin to a side of the screen

Want your chat list to always be visible and available on screen? Pidgin supports such an option on Windows. This option, like the previous one, is found among the Windows Pidgin Options plug-in's configuration option.



Strangely, Pidgin needs a plug-in for this as well!

There you'll find an option for a "Dockable Buddy List". Once you enable this option, you'll be able to drag the Pidgin window to a side of the screen, and have it automatically dock there. What this means is that it will permanently take up that area of the screen, and other maximised windows will then only take up the remaining space.

## Better formatting tools layout

If for some reason you like to change the formatting of your chat messages from time to time, you might like to have quick access to formatting tools. While these tools are available in Pidgin, they're by default grouped together under "Font". Luckily you can ungroup them by right-clicking on the formatting toolbar and clicking "Ungroup Items". This will expand the formatting toolbar and show all the tools you'll need.

## Quickly search through your conversations, and shout

Imagine you're having a chat conversation with someone who



just loves to talk. To make matters worse, so do you. Remember how frustrated it is having to keep scrolling up to see whether you've already spoken about a topic?

There's a better solution with 'pidgin-cmds', a plug-in that includes two components, purple-shout and purple-grep.

The purple-grep plug-in, when enabled, adds the "/grep" command to Pidgin. In the middle of any conversation, if you want to search for something mentioned a long time ago, you can just type "/grep <search term>" and the relevant conversation will pop up. For example, if you remember your friend mentioning something about a Nokia phone, you can type "/grep nokia" and press [Enter] to get the relevant message.

The other half of this plug-in, purple-shout makes it possible to send the same message to all the people you're chatting with. For instance, if you have to leave in the middle of multiple conversations, you could save time by typing something like "/shout be right back, nature calls". More over at <http://code.google.com/p/pidgin-cmds/>

## LAPTOP BATTERY

Laptops are outselling desktops more than ever before. And a perennial gripe plaguing most laptop users is how to maximise their notebook's battery life – we all desire laptops with a humongous battery life, don't we? Here are a few pointers on helping you get the most out of your laptop battery.

### Maximise battery life

Your laptop's screen consumes the most battery power. To ensure maximum possible run time of your laptop battery, be sure to dim your display whenever possible and especially when you aren't connected to an AC supply. In Windows 7,

you can tweak your laptop's screen brightness by going to Control Panel > Hardware and Sound > Power Options > Edit Plan Settings and adjusting the slider settings.

In addition to that, disabling services such as Bluetooth and Wi-Fi network connections when they aren't being used will also save you valuable battery power. Disconnecting external devices like USB flash drives when you're done transferring data to or from them will also extend battery life.

### Never charge your laptop's battery constantly

A battery constantly kept at full charge will degrade at a faster rate, so never keep your laptop (and its battery) connected to the mains constantly.



Tweak your laptop's screen brightness to save battery

If you connect your laptop to an AC supply most of the time, the battery's capacity to hold charge will reduce quicker than it normally would. Plug in the laptop's charger when the battery drains below 15% and try not to unplug the laptop's battery while it's in the middle of its charging cycle. Also remember that fully discharging a battery isn't recommended as it stresses the Li-ion battery and can be detrimental.



Give your charger a break sometimes

### Calibrate your laptop's battery

Over time, your laptop battery's internal fuel gauge might get erratic and report erroneous levels of charge. This will hamper your laptop's performance because it won't utilise its battery optimally. To reset the battery's fuel gauge, follow these simple steps:

- Charge your battery fully up to 100%
- With the battery fully charged, do nothing to drain it for the next couple of hours, allowing it some

much needed rest from the charging process.

- Make sure the laptop's 'Hibernation' mode is ON under the Advanced Power Settings options in Windows' Control Panel. Start draining the laptop's battery.
- Once the laptop hibernates when it reaches minimum battery charge, let it lie undisturbed for over six hours. Once that's done,

plug in the laptop back to the AC mains to start charging its battery.

- Do this whenever you feel your laptop's battery is wonky to correct its internal fuel gauge.

### Stop unnecessary services, apps

Another important tip is to kill processes that you don't want or are added eye candy at the expense of the battery. When on battery power, ensure that you don't have any scheduled tasks running in the background (anti-virus scan, search indexing, software update, etc.) as they can easily eat away at precious standby time.

Next in line are all the fancy (and sometimes useless) icons, notifications and apps that hide inside your laptop's system tray or on the right-hand of the Windows desktop. Ask yourself if you'd rather stare at them and sacrifice battery life? Uninstall services in your system tray (while still plugged in to AC mains) to free up your OS from managing too many things (and consuming battery) when you're on battery power. You can also disable the Windows Aero effect to ensure that all the cool customisations don't consume battery power. Do your laptop's battery a favour and disable transparency.



Select how you want your PC to save power



It may look pretty but it kills your laptop

## OPTIMISING YOUR MOBILE DEVICE

It's extremely important to be able to manage your phone as well as your PC today. Optimising your mobile devices which are drowning in an smorgasbord of apps and functionalities will help you stay afloat in a tech-savvy world.



Skyfire with Facebook Connect for iPad

### Try a different browser

Traditional stock browsers on your devices don't always give you the best of functionality. While you can surf the net with ease on the Android, it's a relatively bare-bones browser app. iOS has a good Safari browser as well. But you can experiment and find better browsers off the apps marketplace. A few popular ones in the alternate browser space include Dolphin, Firefox and Skyfire.

### Make use of widgets

You'll find widgets on Android and Windows Phone devices. They give you a quick glance/preview of apps and provide an access point to your favourite apps. With the Facebook widget, you can get a quick view of status updates.

The clock widget on the Android platform lets you put an analog or digital clock along with various world times on your home screen. In Android to add a new widget, tap and hold on top of the home screen

and select the Widgets menu. A lot of apps have in-built widgets, but it's also possible for you to download more widgets from the Android Market. A very useful widget to check out is the 3G Watchdog, which gives you a summary of data usage on your home screen.

### Make sure you have an anti-virus installed

In case you were thinking that viruses only infect computers, you couldn't be more wrong. Mobile devices (especially Android devices as they allow third-party installation of apps) can get easily infected through open Wi-Fi networks or apps. To better equip yourselves against malware, suspicious access and privacy intrusion, you can look for and install an anti-virus app after downloading it directly from the marketplace. A few examples for mobile anti-virus apps are Lookout and AVG. They're free,



Widgets on Android



AVG anti-virus for a mobile device

scan all your apps and back up your contacts.

### Adjust vibration

Having a vibrator on the phone is always a heavy strain on the phone's battery but considering the fight for battery life by the processor and screen as well, it's necessary to save power wherever possible. Disabling vibration is not that simple in the iOS. To work with this feature, go to Settings > General > Accessibility. At the very bottom, you'll see an option to customise the vibration setting.

### Notifications on the LED

The most important function of most mobile devices amidst all their functionalities is making a phone call. For iOS devices to be able to get a notification for messages or calls missed is very easy. Just go to Settings > General > Accessibility and select the LED flash for Alerts option.



Onavo app for Android



Notifications settings

### Restrict access system

Make sure that only the features you use are running in the background and not any unnecessary apps like location-based services which use up a lot of battery. For an iOS device this feature can be accessed at Settings > Locations Services

### Keep track of data and battery hoggers

If you're not sure about the data or storage consumption of apps on your mobile device, information can be found on an iOS device from Settings> General > Usage and for Android devices you can use additional apps like Onavo.

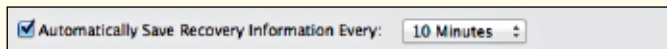
## PHOTOSHOP CS6 BETA

The grand ol' daddy image editing app is getting a whole new look and a host of cool new features in the next iteration. To get your hands dirty, grab the Beta version available on this Adobe Labs page: <http://labs.adobe.com/downloads/photoshopcs6.html> Here are a few tips to introduce you to some of the changes incorporated in this version of Photoshop.

### User interface

The first thing that you'll notice when you open the redesigned Photoshop for the first time is the completely souped up and





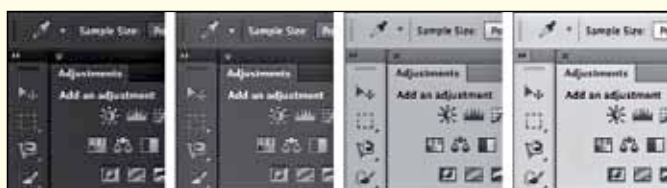
You can set the interval after which Photoshop automatically saves your file

darker interface. This is purportedly in place for a more immersive experience, though the purists who vouch for the original grey-colored interface can always return to the original one, by going to **Edit > Preferences**. Photoshop calls the interface colours **Brightness Options**. It has four different brightness user interfaces available. One noticeable and welcomed improvement is the draggable section of all toolbars for easy movement around the windows. Managing the screen real estate was never a strong point for Photoshop but CS6 makes it easier to move toolbars around, with the window glowing blue when you bring a toolbar near it.

Photoshop to save the file. If the file was large, you could easily have time for a cup of coffee or a stroll around the office. But this isn't the case with CS6; the saving process takes place in the background, so you don't need to spend your time fooling around when your Photoshop is saving the file. One thing to keep in mind though: only the changes made till the point you hit save are stored by this mechanism. The changes made after this point aren't saved – no auto-saves.

## Automatic recovery

You feel like ripping your hair out when Photoshop crashes on a file you've been working on for



Choose anything between the new 'dark' UI or the original grey UI

There's this one small change that some of the pro users who've been working with Photoshop for years may find irksome. Tools like "crop" and "lasso" now have small cursors at the top. In the previous versions, you had to use the bottom of the lasso to mark a section but now you have to use the tip of the cursor as your guide. Additionally, though not all of the tools behave in the same way, an eyedropper still behaves as an eyedropper.

## Background saving

In previous versions, hitting **[Ctrl]+[S]** would mean that you couldn't do anything else for the amount of time it would take

hours and the worst part is that you haven't saved it! Photoshop CS6 introduces automatic recovery, which automatically saves a file as you work. You can set the interval after which Photoshop automatically saves the file, and thus you'll never be more than 10 minutes away from the last change that you made. Go ahead and test this feature with a dummy PS file.

## Content-aware Move and Extend

These are two of the more heavily touted features. The "Content-aware" tool lets you select a car parked on a street in a picture and move it from one end of the street to another end, with Photoshop filling in

the space previously occupied by the car based on the context i.e. the object around it. It also applies a feather to your selection where you've placed the object you just moved. The effectiveness of this tool though is still under question. It's in no way perfect, and a complex image with multiple objects gives disastrous results. The entire exercise with the "Content-aware" tools feels a bit gimmicky; they merely seem to be in place to entice new users with cleverly developed but poorly performing tools.

Another tool from the content-aware stable is 'content-aware extend', which can be used to scale geometric objects like flagpoles and skyscrapers but it doesn't perform as well on non-geometric shapes such as the human body.

## Blur gallery

The Blur gallery will have photography enthusiasts dancing around in glee. It features three filters – Tilt Shift, Iris and Field

blur filters. Previously, you'd have to use actions or follow detailed tutorials to get these effects but these filters, integrated inside Photoshop, help achieve the precise effect. The simplest among the three is the Field Blur but it offers the least amount of direct control. The Iris Blur filter gives you much more rounded and comprehensive control over the location and intensity of the blur

effect. Though it looks simple, this effect is quite powerful and flexible. The Tilt Shift effect is used to conjure an appearance of miniaturisation. It actually emulates the optical effects of extreme perspective control lenses. This particular filter offers excellent control over the effect to get the desired results.

Photographers rely on focal length, subject distance and aperture to determine in-focus and blurred areas of an image. But with such powerful tools in hand, it'll be difficult to



The simple yet powerful field blur

tell an actual photo and a photoshopped image apart.

## Crop tool

The new crop tool will harangue a lot of users. It takes everything backwards. The new crop tool functions in the opposite way to how it used to. The cropped canvas will stay parallel to your display and the actual image will move around, rotate and scale according to your com-



Content-aware Move in action





The new blur gallery offers a great amount of control over the effect

mand. It's actually pretty good, once you get used to it.

## Video editing

Good news for those who also dabble in a bit of video editing. CS6 includes a basic video editor that will come in handy for photographers who don't want to sell a kidney and a half to get their hands on a decent video editing suite. The best part is that once you open up a video, you can play around with it using the Photoshop tools you're familiar with. Color and exposure adjustments, as well as layers, work just how you'd expect them to. If you'd like, you can add borders, textures, filters and even audio tracks to your video. Once you're done editing, you're presented with a handful of exporting options. Furthermore, you've got a couple of built-in transition effects that you can drag and drop on a clip to get the



The brand new Crop tool

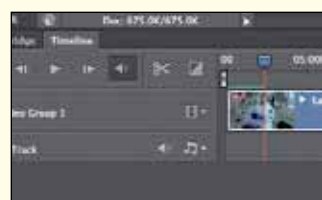


Content-aware Scaling in action

desired effect. You also get decent options when you want to export videos. Although it's no Premier or After Effects, the video editing capabilities play their part extremely well and Photoshop fans will feel right at home using these features.

## Few others that deserve a mention

Gone are the times when you had to look for the info panel when making adjustments. In CS6 when you move or transform something, a small box shows up on the canvas with related values as you perform the adjustment. There are some options to control how this works under the Interface



Video editing has finally arrived in Photoshop

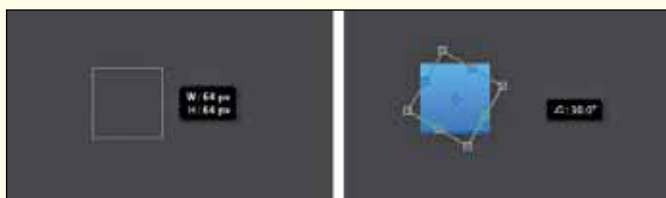
tab in Preferences. Dummy text can be directly pasted in the text layer using the Type menu. Paragraph Styles and Character Styles will behave like in InDesign and many other design apps, letting you store a text style and apply it quickly to text throughout your document. The most awesome addition ever, you can now search layers. You can now search by layer type, name, effect (layer style), blending mode, colour or by a large range of attributes. CS6's improved searching should make traversing your next 1000+ layer PSD a whole lot easier.



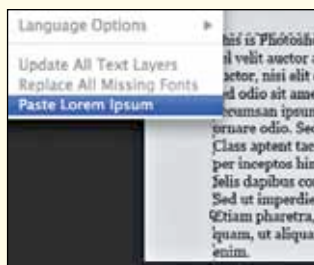
You can search layers by type, name, effect, blending mode and color



Miniaturise anything with the new Tilt Shift filter



No need to look into the info windows for dimensions any more



Fill in dummy text from the context menu

## MANAGE YOUR GAME SAVE FILES EFFECTIVELY

### Back up your game saves

If you consider yourself a gamer, it's likely that some of the most precious files on your computer are your game saves – whether you're on the hundredth hour of an RPG or you beat the computer on 'Deity' difficulty in Civilization. Unfortunately, every game has its own ideas for the best place to store your save

files. Steam Cloud makes this simpler to a degree, but it only works with games that support the Steam feature.

There are a number of apps that get around this issue by maintaining a database of games and their save file locations. These will automatically back up all the games they find installed on your computer. Here are three of them:

- SaveGameBackup.net [<http://savegamebackup.net/>]
- GameSave Manager [<http://www.gamesave-manager.com/>]
- MASGAU [<http://masgau.org/>]

They'll all automatically detect the games they've installed, and back up each game's save files to an individual zip file.

### Back up unsupported games

SaveGameBackup.net and GameSave Manager both allow you to add custom entries to



The GameSave Manager is pretty easy to use and understand

their list of games. You can take advantage of this feature to back up not only games that aren't supported, but possibly also non-game related stuff such as custom game patches, your gaming mouse setting, downloaded game trainers walkthroughs or even non-game related content. They can both also back up registry entries for a game.

This feature can be accessed in SaveGameBackup.net as follows:

- Click on tool icon to open the custom entries dialog
- Click on "Add Entry" to open the dialog for adding custom locations

On GameSave Manager, click on the "Custom Gamesave Entries" link on the left. Clicking on "Add" on this page will take you to a wizard that will let you configure your game save and registry locations. You can even submit these for inclusion in a future version of the software.

MASGAU also supports custom entries, however it needs you to configure the game's settings using an XML file.

## Sync your save files to the cloud

If you want to automatically back up your game saves to the cloud, you can do that quite simply by combining one of the above software and a sync application.

All you need to do is install a synchronisation software such as Dropbox, SugarSync or SpiderOak, and then backup your save files to a directory that's automatically synced.

GameSave Manager particularly has good support for DropBox, and can automatically use it for syncing save files.

## "Sync & Link" with GameSave Manager

GameSave Manager also supports an interesting feature called "Sync & Link". This brilliant feature essentially moves all your game save folders to your one directory. It creates links to the original game save locations so you can still play your games and save them nor-

mally, your games shouldn't know the difference.

This has major advantages. First of all, all your saves are now in one convenient location. Secondly, if you sync this folder with Dropbox or some other software, it will automatically sync your latest save files, no need to run a backup each time.

## Use the MASGAU Monitor to create backups automatically

One less explained feature of MASGAU is the monitor component. Once you've set up the software, i.e. set up the games you wish to backup, the destination of the backups etc. you have access to this feature.

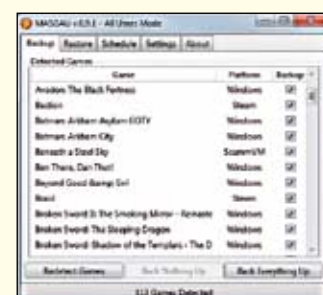
SaveGameBackup.net is simple, and doesn't allow scheduled backups; SaveGame Manager, on the other hand, can schedule backups. MASGAU can also do this and it supports something much better. MASGAU can back up on schedule too, but it also includes a small optional Monitor application that will automatically detect when your save files have changed, and run a backup.

It can optionally create a copy of all your save files to your Dropbox – or other sync software – sync folder so your

saves will be synced as soon as you exit the game.

## MANAGE FIREFOX PROFILES

All your Firefox settings, bookmarks, history, saved passwords and even add-ons are stored in a profile folder in your User directory. When you install Firefox for the first time, it automatically creates



MASGAU supports some complex features – not apparent from its simple UI

this as a new profile for storing all your data. Little known is the fact that Firefox can support multiple profiles and switch between them on launch.

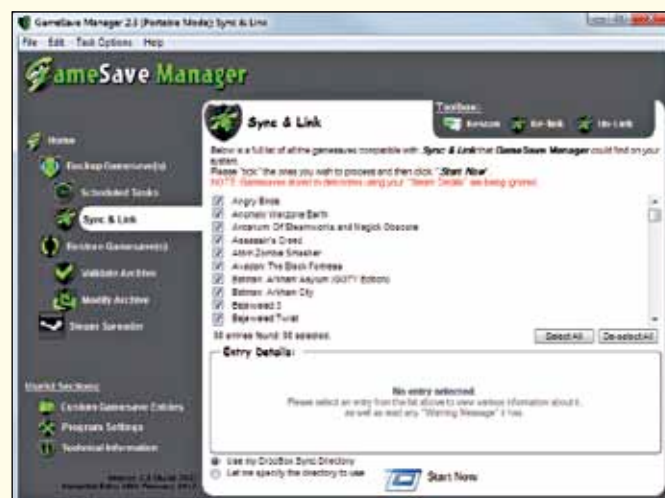
In fact, any Firefox-based application (Thunderbird, SeaMonkey) supports multiple profiles and some of these tricks will work on them as well.

## Create multiple Firefox profiles

Hidden away behind a command line option is the ability to create and manage multiple Firefox profiles. Simply add the "-P" command line parameter while launching Firefox, and you should see a dialog that lets you create new profiles, and delete / rename existing ones. If you're running a 32-bit version of Windows your command line would be as follows:

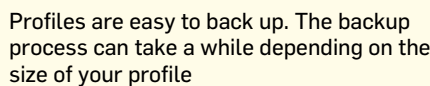
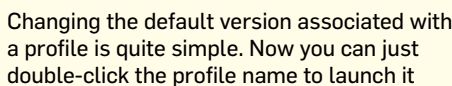
```
C:\Program Files\Firefox\firefox.exe -P
```

Each profile will have a separate history, set of bookmarks and add-ons even. If you're using multiple versions of



The Sync and Link feature doesn't support some games





If you uncheck the “Don’t ask at startup” option here, you’ll get this dialog each time you launch Firefox. If you want to create a different shortcut for each different version of Firefox, you can do that as follows:

Firefox - Choose User Profile

Firefox stores information about your settings, preferences, and other user items in your user profile.

Buttons on the left: Create Profile..., Rename Profile..., Delete Profile...

Profile list:

- Default User
- Main (selected)
- coffee
- devil

Options:

- ☐ Work offline
- ☒ Don't ask at startup

Buttons at the bottom: Start Firefox, Exit

**Extract Profile** [Help]

**Extract Profile**

Choose a name and location for the profile you wish to extract.

New name:

Location:

[Change] [Use default]

[OK] [Cancel]

Application Versions

Application Versions		Refresh
Name	Version	Default
<input type="checkbox"/> Program File (Alt) Mapis FastOutHouse	10.0	<input checked="" type="checkbox"/>
<input type="checkbox"/> Program File (Right) FastHouse	10.04	<input type="checkbox"/>
<input type="checkbox"/> Program File (Alt) Java in FastHouse	10.04	<input type="checkbox"/>

Add... Delete Close

## 🔧 Run multiple versions of Firefox at the same time

If Firefox is already running, and you try to launch another Firefox instance with another profile by using the "-P" option you'll be surprised to find that Firefox will just open another window of the currently running Firefox. To successfully open a new version of Firefox in a new instance, you need to add another command line option: "--no-remote". This makes the command line as follows:

You can combine this with a profile name to launch multiple profiles or Firefox versions at once:

### 🔧 Use the Firefox ProfileManager app

A new enhanced version of the Firefox ProfileManager is being developed by Mozilla.

This version can manage multiple version of Firefox, associate different profiles with different versions of Firefox, and can even be used to back up and restore profiles. It also supports an option to use a temporary throw-away profile for maximum privacy. Firefox ProfileManager will automatically detect if a version of Firefox

The Firefox ProfileManager App can be downloaded from <ftp://ftp.mozilla.org/pub/mozilla.org/utilities/profilemanager/1.0/>

- Select the profile to back up
- Click on Backup menu > Backup to
- Click on the backup folder if you want to back up to a folder, or archive if you want to back up to a zip file.


- Click on Backup menu > Restore from > archive
- Select the archive and open it
- Give the restored profile a name and select the location to restore to
- If you're restoring from a backup folder, previous backups will already be listed with the profile. Simply right-click on it and select "Restore".

## Manage multiple Firefox versions

- 
- The screenshot shows the Profile Manager application. The 'Test' profile is selected in the list, and a context menu is open over it, showing 'Details' and 'Editing' options. The 'Profile Name' field is set to 'C:\Program Files (x86)\Steam\Steam.exe'. The 'Launch Options' section is empty. The 'Other existing Profiles with Profile Manager, use' section shows 'Profile options' set to 'C:\Program Files (x86)\Steam\Steam.exe -version 1.2.5.0' and 'User profile' set to 'The profile selected in the table above'. There are checkboxes for 'Run Profile in offline mode', 'Run Profile in safe mode', 'Start Profile with a console', and 'Start new instance (no remote)'. At the bottom are 'Start Profile' and 'Quit' buttons.

- You can even select a default version here

Set a default Firefox version for a profile:

- Right-click on the profile entry
- In the “Firefox version” submenu, select the version of Firefox you want. 

Tried something creative using the above tips? Drop us an e-mail at [readersletters@thinkdigit.com](mailto:readersletters@thinkdigit.com) or post it on our Facebook page at [www.facebook.com/thinkdigit](http://www.facebook.com/thinkdigit) or at Twitter [@digitindia](https://twitter.com/digitindia)





**WILEY-INDIA**

# Do it Yourself

Become Tech Experts with

## SELF-LEARNING GUIDES from Wiley



₹ 599



₹ 549



₹ 599



₹ 599

24-Hour Trainer



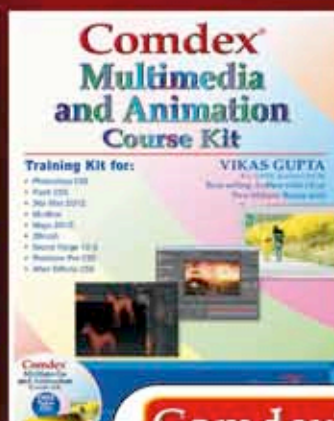
₹ 399



₹ 399

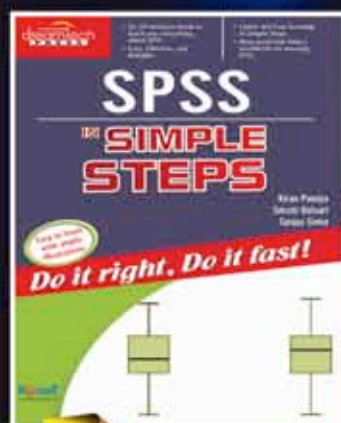


₹ 299



₹ 399

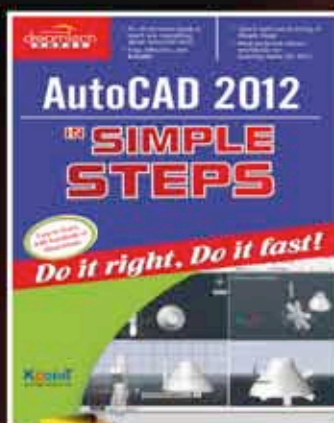
**Comdex®**



₹ 279



₹ 199



₹ 229



₹ 249

**IN SIMPLE STEPS**



**Wiley India Pvt. Ltd.**

Phone: 91-11-43630000 Email: [ptmktgindia@wiley.com](mailto:ptmktgindia@wiley.com) [www.wileyindia.com](http://www.wileyindia.com)

Wiley books are available at leading retail and online bookstores.

<http://on.fb.me/IX2rOC>  
<http://linkd.in/qgymqN>  
<http://bit.ly/kfledS>



**DIY: Build a web site**

We show you how to build any type of web site. From a blog to an ecommerce shopping site

**Retail therapy?**

Research in Motion (RIM) and Samsung have opened their first dedicated brand stores in India, in the nation's capital

# From folder management, cleaning infected pendrives to heating issues

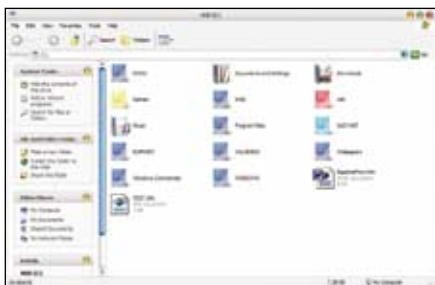
**We give you simple solutions that will solve your problems in a jiffy**

## Colour coding your folders

I want to assign different colours to folders of a directory listing for organizing them (though there are umpteen other ways of organizing files). I'm using XP. Is there any software utility which enables this?

*Viswa Prakash*

You can try out this free utility called iColorFolder (<http://goo.gl/3kmyT>) which allows you to customise the way your folder looks based on the folder skins offered. You can also change the colour of the folder, which is what you're looking



Use iColorFolder to colour code folders

for, by right-clicking on the folder and then going to the Color Label option.

## Partition woes

I have a Sony Vaio VGN-NR110E notebook with Pentium D @1.4Ghz , 1 GB RAM and 120 GB HDD. Initially it came with Windows Vista but I installed Ubuntu 11.04. I was left with

- 7GB "Recovery" partition
- 107GB "C:"
- 1GB "Linux"
- 4.4GB Extended
- 3.3 GB mounted on "/" 1.1 GB

Now, I wanted to update it to 11.10 but it showed that 500MB more space is needed. So I removed the recovery partition using disk utility.

Now when I boot the first screen comes showing the Vaio, Texas Instruments and Intel logos and then proceeds to a screen with a blinking underscore/dash at the top left corner. The it blacks out and again goes to the first screen and the process enters a loop. Can you help?

*Arpit Jain*

In all probabilities, you deleted the MBR along with the "Recovery" partition and also the space you made was in the beginning, and this messed up with the drive map.

You must shift all the partitions to get space at the end and thus extend the last partition for updating the OS (If you can wait go for the 12.04 that's coming on 26th April) Mind well this will take a lot of time so have a cup of tea handy. Make sure you align all the partitions to the beginning of the drive before going for the second part.

To recover the MBR just pop-in the live CD and boot into the live environment and follow these steps:

1. Open Terminal
2. `sudo grub-install /dev/XXX` (In most cases XXX is sda)

You can install the new OS after this.

## Heat issues

I've been playing *Need For Speed Most Wanted* on my HCL laptop (intel core i5 CPU, 320 GB HDD, 2 GB RAM and Intel HD graphics) . It suddenly shuts down after half-an-hour of playing. Why does this happen? I have checked the temperature of CPU, PCH and motherboard it is 85,96 and 47 respectively.

Should I stop playing games on this laptop. I have a six-year-old desktop with Intel Pentium 4 and 512 of ram and integrated graphics which runs this game fine .

*Rajshekhar Sirimala*

Your laptop is overheating. You need to get it cleaned or serviced at an authorised center, and perhaps

find a cooler place to keep it when playing games. A laptop cooler might help a little, but it seems like there is too much dust or dirt caught inside that's causing the overheating.

## Disinfect pendrive

I have a 8 GB USB key it has been infected with vbs:autorun-gen(wrm). When I try to delete or repair it avast gives a message that it is write protected. Even if I try to format, it shows the disk is write protected. I am running windows 7 Ultimate. Please help. Thanking you in anticipation

*Justin Joseph*

Use Flash Disinfector: [http://download.bleepingcomputer.com/sUBs/Flash\\_Disinfector.exe](http://download.bleepingcomputer.com/sUBs/Flash_Disinfector.exe)

## Need to groove to karaoke tunes

I need a karaoke software to be installed on my PC which will help me record my voice along with the karaoke track and save as .wav file for playback with my voice on it.

Please suggest software – either free or chargeable – and ways to get them online.

*Sundaram P K*

Sunfly (<http://www.sunflykaraoke.com/default.aspx>) is a popular karaoke software that works using .cdg files. If you have these .cdg files with you (they usually come as an .mp3 plus .cdg



The cdg plugin working in WinAmp

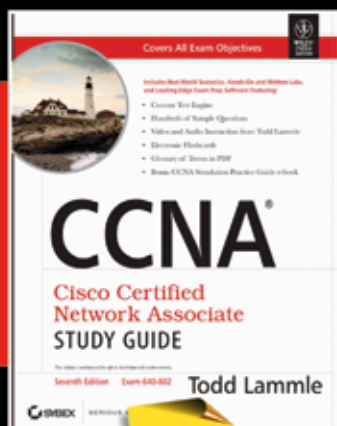




# Wiley's Top Selling Study Guides



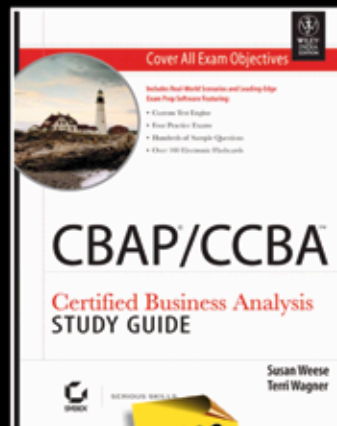
BESTSELLER



₹ 649

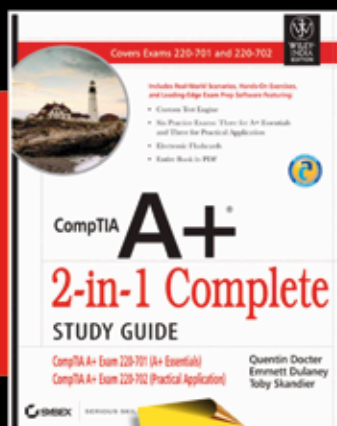


₹ 599

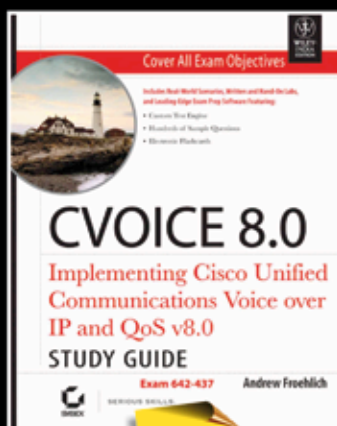


₹ 699

BESTSELLER



₹ 599



₹ 699

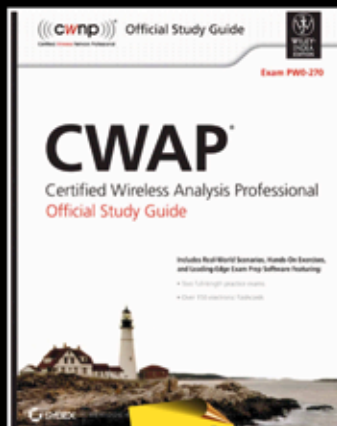


₹ 599

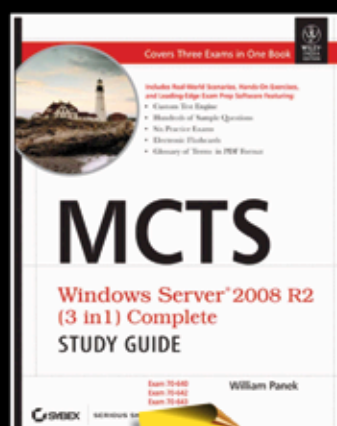
BESTSELLER



₹ 699



₹ 649



₹ 699

THE FIRST CERTIFICATION TIME EARN YOUR



**Wiley India Pvt. Ltd.**

Phone: 91-11-43630000

Email: [ptmktgindia@wiley.com](mailto:ptmktgindia@wiley.com)

[www.wileyindia.com](http://www.wileyindia.com)



Download FREE Sybex iPhone App Flashcards  
<http://bit.ly/HFJumC>



Wiley books are available at leading retail and online bookstores.



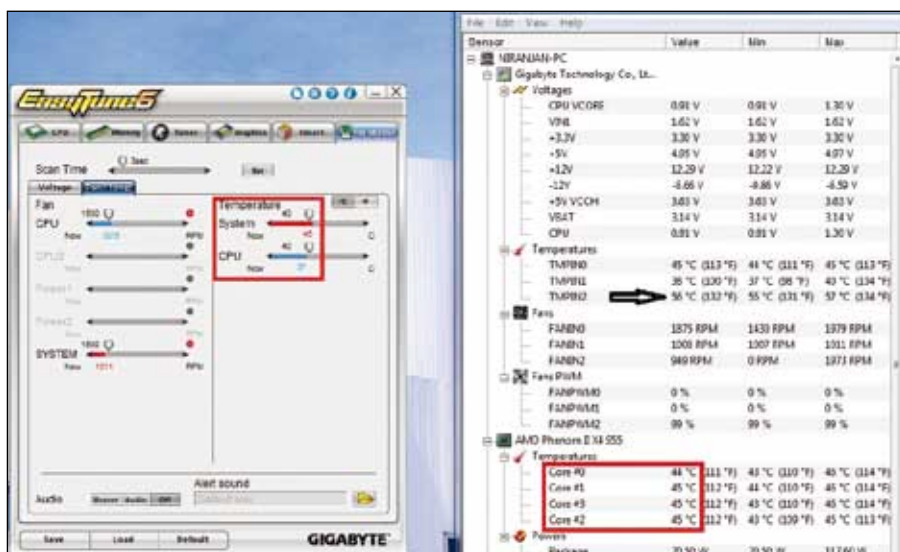
## Android on the Cheap

Google's Larry Page says the Android OS will flourish in the low-cost tablet segment, and is eager to promote

MotoCast

## ZumoDrive no more

Motorola is going to shut down its cloud storage service – Zumo Drive, gearing up to launch an improved service called MotoCast



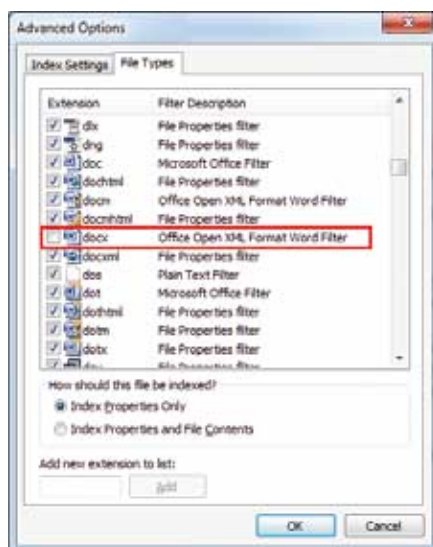
Temperature readings in EasyTune

combo), you can have a karaoke experience through Winamp using a cdg plugin. Find the cdg plugin here <http://www.winamp.com/plugin/cdg-plug-in/100775>. Now about recording your master pieces, you can use any software that records whatever is playing on your sound card. Audacity would be a good option (<http://audacity.sourceforge.net/>)

## From the Forum:

### Prevent unauthorised searching of your system

How can I prevent searching of a particular file in my system. If possible a filetype. For e.g. I want that when someone searches "\*.docx" in my system search result shows nothing. Is there any way to do so. If not just preventing the file



Uncheck file types in indexing options

individually from coming in windows search result, will do. I use Windows 7 Home Premium.

Mohit yadavx

Make sure you have password protected the admin account of your system. Then follow the following steps to prevent unauthorised search on your system:

1. Login into system as Admin.
2. Head to Control Panel and open Indexing Options.
3. Click on the "Advanced Settings" button. (You have to enter Admin Password To access it)
4. Now in the new window that opens up,

click on "File Type" Tab. It will take some time to load.

Uncheck the file formats you want to exclude from Windows Searches.

5. Now open indexing Settings Tab again and click on rebuild. Wait for System to rebuild the index for new settings. Click OK when done and close. Restart the PC. You're good to go.

Sujeet

## Bootable DVD

How do I make a bootable DVD of my Windows 7?

Symbianlover

Simply burn iso file using any DVD burning software (like Nero). You can use IMGBURN if you need a free alternative. Also, Microsoft has its own tool to make bootable usb/dvd. Download it from <http://dgit.in/I2YjaK>

meetdilip and dexterz

## Monitoring temperatures

I have a Gigabyte Mobo which comes with EasyTune. The Temps reported are different in Eaytune and HWMonitor. These temps are after mild browsing and media Playback.

Easytune Shows 37 Deg which seems more correct than HWInfo which is showing 45. Also one of the temps shown by HWinfo is 57Deg which is even higher than the CPU itself. Which Temp is that?

Refer to Snap for more details.

tech\_wiz

Easy tune shows cpu temp (ie socket temp) which is represented as tmpin1 in hardware monitor. The section below tmpin0, tmpin1, tmpin2 are core temps which are more important than cpu temp. You can check these by using the latest version of coretemp. Also the max temp for the Phenom II x4 955 is 62 degrees. tmpin2 I think is a faulty sensor.

Some will say they are vrm temps but we don't think so. Because when you put the computer to sleep and wake up tmpin2 will show a temperature 10 degrees below initial value and will more or less represent the coretemp values.

To get quick solutions to your software and hardware troubleshooting issues, visit [www.thinkdigit.com/forum](http://www.thinkdigit.com/forum)

ebay.in  
Presents



TURN TO PAGE 2

# THE NEW EDITION OF THE BEST-SELLING GUIDE TO THE GMAT® EXAM

MORE THAN  
**1 MILLION**  
COPIES SOLD  
WORLDWIDE

9788126535156 • 840 pages  
• Paperback • March 2012

The Official Guide for GMAT® Review, 13th Edition is the latest edition of the GMAT® guide and will be the only guide on the market that contains official questions from the new Integrated Reasoning component being fully integrated into the test in June 2012.

Because this component is more interactive than other core components in the GMAT® exam [Verbal, Quantitative, and

Analytical Writing], **the Integrated Reasoning practice questions**

**are housed on a companion website that readers can access after purchasing the book.** In addition, 20% of the current questions will be replaced - all with official questions used on actual

GMAT® exams. No other GMAT® study guide can provide this.

For more information on our GMAT® Guides, please visit  
[www.wileyindia.com/GMAT](http://www.wileyindia.com/GMAT)

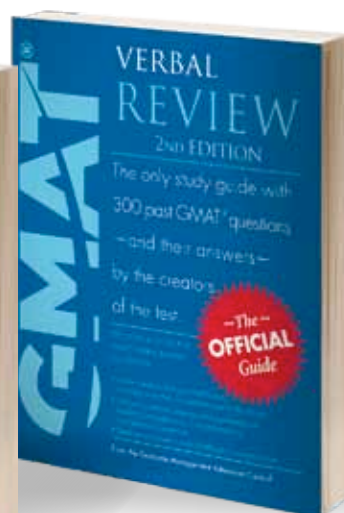
**Also Available**

Special Indian Edition Price

**₹ 1499/-\***

Includes  
**Free CD-ROM**  
with complete PDF of  
The Official Guide  
for GMAT® Review,  
12th Edition

9780470747445  
216 pages  
Paperback



9780470747452  
336 pages  
Paperback

The Graduate Management Admissions Council (GMAC) is the association of leading graduate business schools around the world. GMAC is the owner and administrator of the Graduate Management Admissions Test (GMAT), the first and only standardized test specifically designed for graduate business and management programs. Available in nearly 100 countries, it is the global standard to entry to the MBA and other graduate management degrees.

**WILEY**  
Now you know.



### Vodafone Relocation Service

Vodafone's relocation service will allow post-paid customers to get a new local number without changing tariff plan and credit limit <http://dgit.in/JqJ9Qz>

### Google Drive to offer 5GB

Google has finally got onto online storage offering users 5 GB of storage, in direct competition to Dropbox <http://goo.gl/AuP5I>

# Build your own website: From novice to expert

**We show you how to put up a website for almost any scenario**

Nishith Rastogi

[readersletters@thinkdigit.com](mailto:readersletters@thinkdigit.com)

**A**dmit it, at some point or the other while visiting the number of websites online, you have wondered about having your own web presence. But Web-Design, HTML, the plethora of options available just muddled your resolve. Fret not, in this workshop we cover how to build your web-presence from scratch without expecting you to be a code ninja.

We'll begin with covering simpler options and ready to deploy solutions and then we will move on to setting up your own cloud hosted web server for those who have a need for speed.

So the quickest way to get on to the information superhighway is via a blog. Wordpress and Tumblr are two popular options available; both provide free hosting, free sub-domains, you can also map them to a custom domain name, and wordpress can even be installed on your own server (which we will cover later in this article).

You can start by visiting <https://en.wordpress.com/signup/>. Here you can choose if you want a custom domain for a price instead of sub-domain which will go something like [yourname.wordpress.com](http://yourname.wordpress.com)

To begin choose the ad-supported free hosting, where the wordpress.com will manage the server, bandwidth and hosting for you for free. If you think you require more customisation and zero ads you can choose the paid hosting plan. Wordpress provides you with other host options if you want to do it yourself.

Wordpress can be customized in aesthetics with the use of themes and skins,

there is a large collection of them available which gives you a variety of options in form and factor. No of panels, horizontal scroll; you have got them all, there are free options, and if you fancy there are plenty of advanced paid themes also available. The power and flexibility of Wordpress comes in the forms of plugins for various functions. Much like App store downloads for iPhone. If you want to detect spam in your comments, there is a plugin for that. If you want to enable Facebook comments, there is plugin for that, worried about tag cloud, well you got that one too.

Tumblr is widely regarded as the fastest growing blogging platform but it's more than just blogging. Consider it as



Use this to get a more professional looking URL

an online web storage of everything that interest you, and is publically sharable. You can choose to post a piece of original text, quote someone, post images, video, audio, chat conversation or simply a link to something. It has the usability of twitter (including following people) with the flexibility of Facebook in what you want to post, making it an ideal first landing spot on the web for beginners.

Unlike WordPress, Tumblr doesn't provide an absolutely simple way of using a custom domain name (say <http://www.YourChoiceOfURL.com>) but it can be accomplished via the following two step process none the less as described in the official tumblr blog.

As a first step, you should buy a domain (refer to the next section). After that if you are using a subdomain like [blog.mywebsite.com](http://blog.mywebsite.com), follow the registrar's instructions to point the CNAME record for the subdomain to domains.tumblr.com OR If you are using a domain that has only two levels, like [mywebsite.com](http://mywebsite.com) (which is most probably your case) follow the registrar's instructions to point the domain's A-record (IP address) to 66.6.44.4.

Another thing to note would be that you don't need to do anything with your nameservers and allow up to 48 hours for the changes to take effect. Once you are done with the above log in to Tumblr, click the name of your blog at the top of the Dashboard and click Blog Settings. Check the "Use a custom domain name" box and enter your subdomain (ie. [blog.mywebsite.com](http://blog.mywebsite.com)) or domain (ie. [mywebsite.com](http://mywebsite.com)). Click the "Test your domain" button. If the test finds any problems, correct them. Keep fixing problems and clicking the "Test your domain" button until the test is successful. Then, click the "Save" button at the bottom of the page. You're all done!

## Buying your own Domain

After a point you would like to own a custom domain name (like [yourname.com](http://yourname.com)) instead of using a subdomain (like [your\\_name.some\\_website.com](http://your_name.some_website.com)), the motivation to do this could be because it looks more professional, is shorter and easier to remember, is slightly more credible or simply because it is cooler and you want one, and if that is the case then who are we to argue.

To accomplish this you can do it with any of the hundreds if not thousands of Domain Name registrars. We will be covering three options, "name.com", "BigRock.in" and the 'Google Apps for Domains' way. name.com is chosen because in our experience it is fast,





## Google Cloud Print updated

Google Cloud Print now supports two more vendors – Canon and Fedex – as well as a new Print to Android (PDF) feature <http://dgit.in/K1eDaW>

## Ever wonder why...?

As humans evolved why did we continue to have hair on our bodies? It acts as a motion sensor for alerting us to insects, like bedbugs, before they bite us

DIY

easy and reasonably priced. BigRock.in because we also wanted to include an Indian provider and the 'Google App for Domains' method because of the features it provides including free Gmail inbox/ calendar and other services hosted on your domain. So yes you can have a Gmail account with 'firstname@yourdomain.com' for free once you register the domain.

Starting with [www.name.com](http://www.name.com), you should check the availability of your desired name through the site. If it is available you can buy it right away. If not the service will automatically suggest and search alternatives like [what\\_you\\_searched.in](http://what_you_searched.in) or [what\\_you\\_searched.net](http://what_you_searched.net) or the [what\\_you\\_searched.com](http://what_you_searched.com) and so on. Select the one you like and buy it with the standard procedure of buying from an internet store. During checkout you can choose if you want to buy hosting or other services like SEO optimization from [name.com](http://name.com), if you think you don't need them, you are probably right. You would find that the registration (only first year) of ".in" domains would be your cheapest options. It would be worthy to note that only first year registration of .in would be at the discounted price of USD 2 or USD 3, after first year their renewal would be again at the standard price of USD 8-10 depending on the service.

Once you have registered a domain name, you would need to set it up so that it redirects to your hosted content. For [name.com](http://name.com) go to the home page, at the top menu bar, click on Account. This will list all the domains you own. Select the domain you want to edit or setup. On the right hand side, in the "Control Panel" section click, "DNS Record Management" and edit the entries to reflect your hosted

IP. Most importantly you should edit the CNAME records, you might want to edit / create the CNAME entries for both "your-domain.com" and "www.yourdomain.com" separately.

BigRock.in is another option for you to register a domain. Along side hosting, they also provide a basic site builder for which you don't need to code a single line. It is a browser based drag and drop tool which looks quite well suited for beginners. They also provide limited but free email accounts with the domain name you register.

To give website builder a spin go to <http://www.bigrock.in/website-design/index.php> and select the "Try our Free Demo now" link. You can choose the design, layout, content and to some extent even modify the available design and layouts. It is all graphical and has a drag and drop interface.

If you are in love with Google products such as Gmail, Calendar and Groups, and have wondered if you can get them on your custom domain name, then Google Apps for Domains is for you. Best of all in the first year it is free with Domain registration and has Zero setup.

Start by going to this link <https://www.google.com/a/cpanel/standard/new3> which also gives you the option to link up your existing domain if you have any. Otherwise for Rs. 500 (approx 10 USD) you can get a domain, 10 custom Gmail accounts and much more. Definitely a worthy option to explore.

So far we've covered regular websites but these days no mention of web-presence can be complete without looking at setting up an e-commerce solution. [www.buildabazaar.com](http://www.buildabazaar.com) is a good zero-setup

solution to look at. You will save considerably on time and expense as compared to rolling out your own e-commerce solution or if you lack the expertise then even rolling out an existing open source solution (more on that later).

BuildaBazaar offers good pricing and being associated with [infibeam.com](http://infibeam.com), your products can be displayed at [infibeam.com](http://infibeam.com) website and you can also offer the sell the products of [infibeam.com](http://infibeam.com) on your site, with both options earning you commission. The Payment Gateway fees are also low as Buildabazaar gives you a group deal. There's lesser paperwork and technical hassle and instead of five to ten percent they are charging three percent.

## Using Google Analytics

So far so good, now that you have got online, the next natural curiosity is to know how many people are seeing your efforts, where are all they are coming from, what time so on and so forth, to accomplish this you should install Google Analytics on your website. To do this, first go to <http://www.google.com/analytics/>. Over there log in with your current Google account or create one if necessary, once signed in click on the "Admin" link on top left, next click on "New account" fill in the required details, it would be advisable to choose "One domain with multiple sub-domain" when asked.

At this point on the bottom pane it will automatically generate a code for you, the next step is to simply copy paste this code in the head section of each page of your website. No other configuration needed. If your site is using a global template, simply add it there. Google Analytics can be integrated with

## ASUS Optical Drive

# A Green Environment for now and the Future



- E-Green Engine Technology automatically optimizes drives' power consumption.
- E-Green displays detailed information on power saved and CO<sub>2</sub> reduced by using the ASUS drive.



SDRW-08D2S-U LITE  
External Slim DVD Drive



DRW-24B5ST  
Internal DVD Drive

**ASUS**  
Inspiring Innovation • Persistent Perfection



\* Conditions Apply | All Specifications are subject to change without notice. Product availability may vary by region.

ASUS - No.1 in Quality and Services - The Wall Street Journal Asia

[www.asus.in](http://www.asus.in) | Toll Free No. 1800-2090-365 | For Feedback Email [reachus@asus.com](mailto:reachus@asus.com) or Log on to [www.asusservice.com](http://www.asusservice.com)



## New Cyber-shots

Sony has launched 34 new models of Cyber-shot cameras in India, priced between ₹5,490 to ₹27,990 <http://dgit.in/HZByo1>

## More Top Up FeeW

TRAI has hiked the processing fee on mobile top up vouchers (Rs. 20 or more) from ₹2 to ₹3 <http://dgit.in/HZCtVL>

almost anything on the internet, provided you have the ownership.

After this, once you login, on your Google Analytics home, you can see tons and tons of statistics about your users visiting your content, you can generate custom reports, set alerts and satisfy the statistician in you to full extent. As they say enterprise scale reporting, for you, for free.

## Setting up your own WebServer from Scratch

What to do if you want to have ultimate control over your hosting environment and do whatever you want with it, without having the hassles of maintaining a computer running all the time and connected to a fat internet pipe. Well cloud hosting is the answer to that solution, and one of the leading providers of cloud computing services is the Amazon Web Service suite. Here we will look at what it takes to set up your own web server and host a blog or a web-app like instagram.

As the mandatory first step you need to create your AWS account. You can sign up <http://aws.amazon.com/ec2/>. You'll have to provide a credit card and a phone number where you will be called as part of the online registration process for verification purposes. If you are uncomfortable with providing your credit card details you can use a virtual/disposable credit card also to authorise your registration. Amazon offers a free usage tier which is great to explore the services and even host real apps without being charged. The complete details of it can be found here <http://aws.amazon.com/free/> but to summarize, you get a micro-instance [enough to host a blog or simple web-app with moderate traffic] free for a whole year, including storage, network, hosting and everything. We will now do a walk-through of setting up a small linux based web server with some standard defaults, you are free to customize it if you want.

Well once you have signed in and reached your EC2 dashboard, available at <https://console.aws.amazon.com/ec2/>

home you should click on the "Launch Instance" button. Instance is nothing but one computer running in a remote location which over the internet you can control with your keyboard and mouse. A typical set up for any webserver. After that select the "Classic Wizard" and proceed by clicking on "Continue". In the next screen select the "Amazon Linux AMI 2012.03" option. It is an EBS [Elastic block storage, or simply put a hard drive] based instance so your data isn't lost every time you restart it and you can swap in swap out the drive, also this AMI [Amazon Machine Image] is optimised and supported by amazon and has a very low memory footprint, which is perfect for micro instances [613 MB of RAM]. Choose the 32 bit option within it.

Next, choose 1 as the number of instances, Micro as the type, with No preference in the availability zone [Do not select Spot Instance]. In the next screen leave everything as it is, except for selecting the



No better way to have your free computer

checkbox for "Termination Protection", which will ensure you don't accidentally delete the instance. In the next screen type a Key-Value pair if you want to identify your instance, for example "Type - WebApp" would be a good option. Then comes the important step of associating a 'Key Pair' with your instance, this is basically your authorization rights. If you know what SSH is and have a key Pair ready, then upload your public key, and use your private key to sign in, otherwise click on "Create a new key pair", give it a name, and then click on "Create and Download the new KeyPair" link. Click continue on the next screen of Security group and finally click "Launch"

and voila you have your very own free computer running in the cloud. Yes your very own dedicated computer.

Now let us see what we can do with it, after waiting for a minute or so (to let your instance boot up), go to the instances tab, right click on your instance and click connect, a pop-up will come with the instructions. You can either use a standalone SSH client (Windows users think of PuTTY, Linux users just open your command line and you have one there) or the built-in browser based client (assuming you have Java). In either case the instructions are simple and written there. I personally prefer a standalone client, use the private key (which you created and downloaded above) to authenticate yourself and login.

If you are a linux user, remember to set the permissions via "chmod 400 path\_to\_file.pem" as mentioned in the instructions.

Next in your browser, go to "Security Groups" from there select "Default", in there at the "Inbound" tab in the bottom pane, add 2 new rules "HTTP" and "SSH" leaving the source as default value, if the rules aren't already there, to allow people anywhere on the internet to access your web server over the HTTP protocol and for you to access it via the SSH protocol. Next you can follow any guide on setting up environment on EC2 stack for example searching for "Setting up Ruby on Rails on Amazon EC2" or "Setting up Django on Amazon EC2" on Google will provide you many great resources to set up a proper web app for the sake of demonstration let us learn how to set up WordPress

**Step 1** would be to install a web server, we will go with Apache [you can pick nginx if you fancy], in the command prompt type

```
$: sudo yum install httpd
To start the Apache Web Server:
$: service httpd start
```

It would be a good idea to test your Web Server, to do this open a browser and access your web site by typing in your public DNS entry which you can get from ec2 console, by selecting your instance, and scrolling down in the bottom pane. If you type this entry (or copy paste) in the address bar you should see a test page.



## Microsoft updates Skydrive

Microsoft Skydrive, now supports ODF (Open Document Format), increased upload limit, share to Twitter features, and custom short URLs <http://dgit.in/K1f0lR>

## Patent wars continue

Motorola Mobility won a US International Trade Commission judge's initial ruling to block import of Microsoft's Xbox system

DIY

**Step 2:** would be to install PHP

```
$: sudo yum install php
php-mysql
```

Restart the Apache Web Server:

```
$: sudo service httpd restart
```

If you wish you can test your PHP

installation via the following steps:

```
$: cd /var/www/html
```

```
$: vi test.php
```

1. Type `i` to start the insert mode
2. Type `<?php phpinfo() ?>`
3. Type `:wq` to write the file and quit `vi`  
Open a browser and access `test.php` to test your PHP installation: `http://your_public_dns_entry/test.php`

**Step 3:** Install MySQL

To install MySQL, type:

```
$: sudo yum install
mysql-server
```

Start MySQL:

```
$: sudo service mysqld start
```

Create your "blog" database:

```
$: sudo mysqladmin-
```

```
uroot create blog
```

Secure your database:

```
$: /usr/bin/mysql_secure_
```

Installation

Answer the wizard questions as follows:

1. Enter current password for root: Press return for none
2. Change Root Password: Y
3. New Password: Enter your new password
4. Remove anonymous user: Y
5. Disallow root login remotely: Y
6. Remove test database and access to it: Y
7. Reload privilege tables now: Y

**Step 4:** Install WordPress

To install WordPress, type:

```
$: cd /var/www/html
```

```
$: wget http://wordpress.org/
latest.tar.gz
```

```
$: tar -xzf latest.tar.gz
```

renaming the folder

```
$: mv wordpress blog
```

The above step will give you the url `http://your_public_dns.com/blog` if you want something else after the last slash, rename the folder to that.

If anywhere you encounter an error which says permission denied, simply append "sudo" at the beginning of the command.

Now we are near the end, so simply create the WordPress `wp-config.php` file:

```
$: cd blog
```

```
$: mv wp-config-
```

```
sample.php
```

```
wp-config.php
```

```
$: vi wp-
```

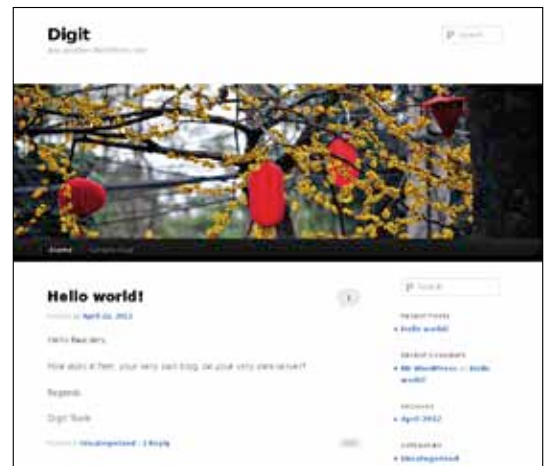
```
config.php
```

1. Type `i` to start insert mode.
2. Modify the database connection parameters as follows:  
`define('DB_NAME', 'blog');`  
`define('DB_`  
`USER', 'root');`  
`define('DB_PASSWORD',`  
`'YOUR_PASSWORD');`  
`define('DB_HOST',`  
`'localhost');`
3. Type `:wq` to write the file and quit `vi`

To enjoy the fruits of our labour, open a Browser and access your blog: `http://your_public_dns/blog`. This should trigger the WordPress configuration process.

As an added bonus, the free tier also gives you 1 free elastic IP, to use it and map it to your custom domain which you would have probably bought do the following

1. In the AWS Management Console, click Elastic IPs (left navigation bar)
  2. Click Allocate New Address, and confirm by clicking the "Yes, Allocate" button
  3. Right-click the newly allocated IP address and select "Associate" in the popup menu. Select the instance you just created and click "Yes, Associate"
- Next, use the IP that you have just associated in the CNAME entry in the control panel from where you have bought the domain as explained above. Similarly, if you want to host your e-commerce store you should look at



The final result

`http://www.opencart.com/` and try installing it in your fresh as mint self built web-server.

We have covered a variety of ways to get yourself on the web, from novice methods to slightly more advanced technique, we are waiting to hear in our online forums about your success in setting up your web-presence.

**FAST** Networking Solution  
FAST · EASY · STABLE

ASUS RT-N66U Black Diamond Series Dual-band Wireless-N Gigabit Router

*The Perfect Blend of  
Design and Speed*

**ASUS**  
Inspiring Innovation · Persistent Perfection

**450x2** Gigabit  
Concurrent  
2.4GHz & 5GHz  
Wired Speed

**300,000** USBx2  
Sessions  
Wireless Printer &  
Storage Sharing

\* Conditions Apply | All Specifications are subject to change without notice. Product availability may vary by region.

**ASUS - No.1 in Quality and Services** - The Wall Street Journal Asia

[www.asus.in](http://www.asus.in) | Toll Free No. 1800-2090-365 | For Feedback Email [reachus@asus.com](mailto:reachus@asus.com) or Log on to [www.asuservice.com](http://www.asuservice.com)



**Industry connect**

Ultrabooks are all the rage right now. We talk to Intel to know more about these new thin, powerful laptops

**Apple iPad mini**

The latest rumours indicate a 7.85-inch version of the Apple iPad, the iPad mini will be launched in 2012 <http://digit.in/Inq4g6>



# HD VIDEO-CONFERENCING

## Bridging physical boundaries

SMBs are going global very fast, and HD video-conferencing solutions can help them connect in a world without boundaries

Subodh Kolhe  
[readersletters@thinkdigit.com](mailto:readersletters@thinkdigit.com)

**B**usiness-grade Internet connections, once reserved for Fortune 1000 boardrooms, is now widely available and affordable. The latest adverts in cloud computing can deliver multipoint video to virtually any business desktop worldwide (not just boardrooms). The technology of video-conferencing solves the problem of geographically scattered employees or conducting face-to-face meetings with long distance clients

### Why is video-conferencing necessary in modern offices?

Mid-sized companies may be headquartered and conduct business from one or two locations, but business has become more global in nature. Customers, partners, vendors and suppliers can be located in the next state

or on different continents. In addition, finding experienced staff may require interviewing applicants from other locales. Video conferencing is an ideal way to interview potential employees and contractors because it allows you to interact as if you were in the same room regardless of time zone differences. Training and customer support are also two popular applications that have helped to proliferate the use of video conferencing in companies of all sizes. Training can take place from anywhere and at any pre-designated time.

### Advantages of video-conferencing solutions

- It eliminates the need for IT to schedule and launch conferences, getting users up and running faster and regardless of where they're located (especially critical for time-sensitive issues);
- It delivers a high-quality conferencing experience, without requiring that end

users understand (or even think about) the underlying technology;

- It enables companies to form project-focused teams comprising co-workers, partners, and even customers;
- It helps managers integrate conferencing into daily business processes, to improve decision making, knowledge sharing, issue resolution and collaboration;
- Its simplicity and fixed cost encourages increased, enterprise-wide use, boosting productivity and driving ROI.

This era of HD video-conferencing solutions which listen to your business concern, provide you with the best solution that suits your unique business needs. The comprehensive suite of video conferencing solutions enables meetings to occur without the need to leave your office – while increasing productivity and reducing costs.

According to statistics, by 2015 about 66 million users will be video enabled; this shows the need for a better option for

## 500 TW Laser test

Ohio State University will live test its 500 trillion watt laser in mid-May to see if it's possible to create sustained fusion reaction as a future power source



## OM-D E-M5!

Olympus launched its flagship micro four-thirds camera, the OM-D E-M5, featuring a 16.1 MP Live MOS sensor <http://dgit.in/Inq8w8>

Smart SoHo

small groups to have conference meetings rather than huddle around PC webcams.

## Smart solutions for HD video-conferencing

### Vidyo

Provides a family of video-conferencing products that are designed to use the Internet rather than a private WAN to connect video-conferencing systems. Vidyo's product line includes a room system, VidyoRoom, as well as a PC client, gateway-to-SIP and H.323 devices, as well as a friendly administrative system. Vidyo uses off-the-shelf cameras and microphones that you can purchase anywhere. Vidyo competes with major vendors such as Cisco and Polycom. While Vidyo makes products for businesses of all sizes, we think it is most appropriate for companies with congested or overworked WANs. In fact, Vidyo is ideal for organizations with users that have a variety of end-points, from desktop PCs to laptops, netbooks and even mobile devices. In addition, the system is a good fit for companies that run a hybrid wired/wireless environment.



individuals. It's free, fast and reliable and now it is integrated with Facebook too. Pro and premium options are available for users requiring more options: to call land lines, mobiles or forward incoming calls to your mobile. It offers VoIP and allows users to share their screen with the person they are communicating with. Being the only solution for ad-hoc meetings, Skype allows for video-conferencing and screen sharing with multiple participants when using the Skype premium account, the group sharing works with Mac only. It's a single user license service which has free and paid plans.

Skype's new competitor, **ooVoo**, cross-platform downloadable videoconferencing software is a relative newcomer to video conferencing, is looking to challenge other mobile video chat apps such as Skype, the reigning champ of video chat. In ooVoo's arsenal: cross-platform video and voice calling for Android and iOS devices that can connect up to six video calls at a time. The free desktop version of ooVoo includes audio and video calls with up to three people, file sharing, desktop sharing, free online video chat hosting, and group and individual IM/chat. Particularly good is the quality of the videoconferencing and the ability to have up to six people video communicating on screen without the need to have a special high-bandwidth line.

### Hardware

By introducing a new category for unified communications (UC) and Web conferencing, Logitech has launched its recent product BCC950 with all-in-one audio and video ConferenceCam. Bringing the webcam and speakerphone together; Logitech's ConferenceCam has entered to fill a huge gap in the video conferencing market. This Skype compatible \$249 gadget is surely going to make small group video-conferencing more

affordable and productive. With its eye set firmly on the corporate market, the BCC950 ConferenceCam squeezes in a Carl Zeiss lens and 1080p HD video quality at 30fps, into a device that sits atop a motorized stalk panning 180 degrees across a room.


Aimed at small businesses and groups, Logitech hopes the system will pull users away from traditional conferencing systems like the Polycom Voicestation 300.

With LifeCam, Microsoft's design team has taken a different approach to this all-too-familiar market, drawing their inspiration from sleek bullet cameras or perhaps the Apple iSight. This webcam is made out of aluminum. Actually being the first consumer webcam to support 720p video at 30fps, the full 1,280x720, unlike some other attempts at so called HD video for some 2 MP webcam's that only managed 960x720 which isn't really HD. The LifeCam is compatible with Windows Live Messenger, Windows Live Movie Maker and Windows Live Photo Gallery. It's also compatible with Windows 7 out of the box, as well as Windows Vista and Windows XP. But the system requirements are quite high though, LifeCam at least needs a dual core 1.6GHz processor, but Microsoft recommends a 3GHz dual core processor and 2GB of memory.

### Focus on the future

On-demand conferencing is especially relevant today, as the number of remote and virtual workers is growing, while the demands on businesses to stay competitive in an increasingly global world continue to increase. Those far-flung teams need to collaborate regularly; easily and

cost-effectively to ensure companies boost revenues and decrease costs, and unified communication technologies matter more than ever.

On-demand collaboration tools can play a huge role in helping companies to meet those goals. And HD videoconferencing helps answers that call to some extent—quickly, easily and remarkably cost-effectively. 



Microsoft LifeCam

### Polycom

The company's technology ranges from audio and video endpoints, to collaborative solutions and the network infrastructure. As the leader in the video conferencing market, Polycom delivers all the key elements of a superior meeting experience: video, voice and content. Polycom's on-demand multimedia conferencing solutions remove the barriers collaboration, enabling people to meet instantly and easily whenever they need to and wherever they are.

A robust and flexible on-demand conferencing environment starts with Polycom's suite of conferencing infrastructure products.

### Skype

Polycom and Vidyo are almost enterprise level HD videoconferencing solutions, but Skype is something that's still a great solution for smaller businesses and

**Nothing like sunlight**

Micromax may be developing a phone with a built-in solar charger, where 3 hours of charging return 1.5 hours of talktime

**BlackBerry Mobile Fusion**

RIM has launched its enterprise multi-platform device management solution, BlackBerry Mobile Fusion – for BlackBerry, iOS and Android devices

# Understanding Ultrabooks

Ultrabooks are all the rage in the laptop and personal computing market right now. Intel expects ultrabooks to occupy around 40 per cent of the total laptops launched in 2012. We conversed with Karen Regis, Intel's Director of Ultrabook Marketing Strategy, to get insights about the big picture

Jayesh Shinde  
readersletters@thinkdigit.com



Karen Regis, Director of Ultrabook Marketing Strategy, Intel

**Q Would you agree that the term ultrabook is a marketing gimmick?**

Intel expects Ultrabook devices to be as transformational to mobile computing as Intel Centrino Mobile technology was more than eight years ago. Remember, Intel's vision for the Ultrabook entails a multi-year, industry-wide endeavor that will roll out in phases with new experiences and features added over time. It's about driving innovation and integrating capabilities that users want and may not even know yet that they need – much like Centrino helped make Wi-Fi a must-have in laptops. Some of the nearer term innovations we expect to see include hybrid devices (both tablet and laptop functionality) as well as technologies like touch and sensors. Intel is committed to the Ultrabook category, and we're seeing very strong support from our partners as well.

**Q How do you respond to the criticism that the ultrabook is a desperate attempt to rekindle excitement among laptops, more importantly among consumers more keen on buying a tablet?**

Worldwide PC unit shipments continue to grow at double-digit rates. This is one of the reasons for Intel's recent record revenues and earnings. We believe that PCs will continue to play a key role in people's personal computing needs.

At the same time, people have rapidly evolving requirements for personal computing in terms of responsiveness, capabilities, increased security and mobility. Intel aims to help drive these changes. Whether it's a tablet, PC, Ultrabook or hybrids we aim to deliver great experiences that satisfy people's needs, no matter what the device.

**Q Is an ultrabook a poor man's MacBook Air?**

Intel's vision for Ultrabook devices entails a multi-year, industry-wide endeavor that will roll out in phases where new experiences and features will be added over time. Intel aims with the Ultrabook category to deliver new experiences that people want and will love. Devices coming in the future will blend the best of the laptop experience with aspects of other consumer electronic devices.

**Q How has Intel managed to make thin ultrabooks last longer than fatter laptops with bigger and better batteries?**

Great battery life is one of the requirements to be called an Ultrabook. Ultrabook devices offer at least 5 hours of battery life with many providing 8 hours or more, even in the sleekest form factors. In general, we expect to

see greater use of Lithium polymer batteries (such as are used in phones) in Ultrabook devices. Intel is focused on driving innovations in battery design and technology in the industry to continually improve the user experience in terms of ever better battery life in ever more attractive designs. This is one of the focus areas of the Ultrabook Fund (read more here: <http://dgkit.in/IeZNCd>).

**Q Regarding OEMs and various partners, is Intel laying down minimum specifications for ultrabooks to ensure a standard benchmark for end user experience?**

Intel works closely with its industry partners to ensure that Ultrabook devices consistently deliver a compelling and unique value proposition to customers. In order for a system to be classified as an Ultrabook and use the Ultrabook trademark, a certain set of guidelines must be followed. The guidelines may evolve over time as new capabilities come to market. A verification process is in place to help ensure the consistent and outstanding experience we aim to deliver.

**Q This year marks Intel's first steps into the tablet and smartphone market with Medfield chips. How important is this market to Intel and how does it affect sales of ultrabooks?**

I'm not the right person to comment on Medfield, but what I can tell you is that whether it's a tablet, PC, phone or Ultrabook Intel aims to deliver great experiences that satisfy people's needs, no matter what the device.who value certain features more. For example, a gamer may want a desktop system with maximum performance. Or a road warrior may value weight and size as the top feature. We value choice and a spectrum of options for all types of users. **Q**

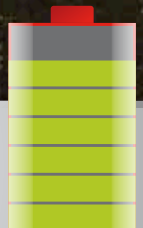
READ MORE AT:  
[dgkit.in/intelint\\_may2012](http://dgkit.in/intelint_may2012)

**thinkdigit**  
YOUR TECHNOLOGY NAVIGATOR



*Long hours at Travel?*  
**> Stay Charged <**

**Introducing Huntkey**  
**Power Bank**



**Huntkey Universal Mobile Charger**

**Compatible with all**  
**Mobile Phones**  
**Smart Phones**  
**Digital Camera**  
**MP3/MP4**



**Bangalore:** Texonic Instruments - 080-25036600 | 9844719919. **Chandigarh:** OST Electronics Ltd. - 9815966457, **Chennai:** Texonic Instruments - 044-42118608 | 9840172900. **Cochin:** Digicom - 2315363 | 3219533 | 9947134479. **Haryana:** OST Electronics Ltd. - 9878019857, **Himachal Pradesh:** OST Electronics Ltd. - 9878019857, **Indore:** Vinit Enterprises - 9826134334 | 93018511433. **Jammu & Kashmir:** OST Electronics Ltd. - 9697568637, **Kolkata:** Akshay Enterprises - 98302 63607 | 9883566606. **Mumbai:** Prime ABGB Pvt Ltd - 022-67402000 | 9870250700. **New Delhi:** Little Rose Trading Pvt. Ltd. - 9312258546. **Punjab:** OST Electronics Ltd. - 9988700546. **Raipur:** Savera Marketing Agency Pvt. Ltd. 09300307500. **Secunderabad:** Data Systems - 9866249051 | 9959554411. **U.P. | Uttarakhand:** Digital Computers - 0581-6541113 | 9837890470. **Vijayawada:** Data Systems - 9866249927. **Vishakhapatnam:** DataSystems - 9866249928.

Also available in



**Killer rigs**

Build the configuration of your choice; from budget to high-end rigs, We tell you about components that matter

**Price watch**

Find out prices of the latest ultrabooks and other gadgets to help your buying decision

# iPod docks

## Agent 001 goes shopping for a companion to his favourite music player

Agent 001

agent001@thinkdigit.com

“An iPod dock? Yech. Who listens to music on those crummy things?”

That's the kind of sentiment I've always had towards iPod docks since the beginning. But before you label me as an elitist understand this – I am one. Of course I kid! But the fact is I want my audio without making any kind of concessions, especially those arising out of form. Hearing news of Behringer launching a monstrosity called iNuke Boom, I decided it's about time I paid a little more attention to this category. I'm talking about an iPod Dock that's a whopping 8 feet wide by 4 feet tall, weighs over 700 pounds and pumps out over 10,000 watts of power. Supposed to be the world's loudest iPod dock, it's so huge that an iPod looks like a mere speck on this behemoth's back.

Soon I began wondering about iPod docks closer to home. While I'd love to own Behringer's masterpiece, I'm sure I'll have better use for \$29,999.

So who are iPod docks meant for? I'd say they are meant for casual listening. I've had an iPod Touch for quite some time and I swear by it, but for me the iPod has exclusively been an on-the-go sort of companion. But come to think of it, I wouldn't mind plonking it into a dock as soon as I entered my living room and listen while I relax or unwind for the day. Another great use for a dock is in the great outdoors. As strange as it may sound, I've been to many a beach party where the old bonfire of yesteryear was replaced by – you guessed it – an iPod dock.

Within a month or so of window shopping I quickly came up with a few important considerations that go into the buying




decision. As always audio quality is of paramount importance. At the higher end of the price spectrum I debuted the Bose SoundDock 10 (~₹42,000). A friend was kind enough to let me keep it for a week, during which I even opened it up to try and understand how Bose's Waveguide technology works to amplify sound. It helps that no one knows I'm Agent001!

While spending ₹42,000 on a music system isn't unheard of, was the Bose SoundDock the best bang for my buck? Not quite. After listening to the wood bodied Philips DS9000 I was mighty impressed, and it's also a little cheaper compared to Bose. It packs in a few more features as well such as a custom app that gives you access to hundreds of internet radio stations with metadata tagging and social functionality. And it can double up as an alarm clock. A remote that lets you control the iPod is also very important – you'd want to be able to go back a level, change artists and playlists, control volume, etc.

At a lower price bracket I found many interesting options – most of which were portable. The Creative Zii Sound D5 is an odd specimen. Apart from being a regular iPod dock it can play wirelessly over bluetooth. Did it lose fidelity while transmitting over such a lossy protocol? Nope, thanks to the apt-X codec. Despite this, the sound quality, however, left a lot to be desired. Priced at around ₹18,000, I decided to give it a skip for now and continue looking.

The Philips DS1100 looked attractive and had decent sound quality for its reasonable ₹4,999 price tag. In the same price range, the Logitech Mini Boombox came highly recommended by a few friends but I wasn't able to get my hands on a unit to audition the sound quality. By now, the prospect of portability seemed to be more appealing to me than anything else. I looked at the JBL On Stage IV, which looked fantastic and could go mobile on six AA batteries. The sound quality was nothing to write home about though. From the Philips stable, I tried out the SBD 7500 which paled in looks to the JBL, but redeemed itself by offering audio performance that was a notch higher. It lasted for about four hours on a set of four regular (non-Duracell) batteries at full volume.

The trouble with all these portable pipsqueaks was just that: they were like I said, pipsqueaks. Could there be something that offers decent punch while not burning a hole in my pocket? Logitech's S715i seemed to come close. The dock has a whole bunch of drivers and can run on rechargeable nickel-metal hydride batteries. It packs a punch even if the audio quality isn't exactly pristine. Priced at about Rs. 13,000, I think I'd found the iPod dock for me.

For those of you who find the price tag alarming and just want a bedside alarm+docking solution, I'd recommend the The Philips DS1100. For those who want extreme portability Philips' SBD 7500 is a slim and decently loud option. Well at least now you have a wisecrack to offer anyone who throws that old cliché your way, “What's up dock?”. 

**ebay.in**  
Presents



**TURN TO PAGE 2**

## New sound tech from Sony

CMT-V50iP and the CMT-V75BTiP are the latest iOS docks from Sony to feature magnetic fluid instead of speaker dampers to move sound <http://goo.gl/A3rNi>



## 10 alternatives to Instagram

Looking for an alternate to the Social Photo-Filter app? We give you 10! <http://bit.ly/JiGJOT>

Agent 001

### 3D or LED TV?

I want to buy a TV, but can't decide between a 3D TV and regular LED TV for long use. Which one is better? Also, please suggest a good brand and model (I'd prefer Sony). My budget is around ₹1 lakh and I won't be bending it!

Prateek Yadav

3D TVs and LED backlit LCD TVs are the same, 3D TVs just have a faster refresh rate as compared to normal LED backlit LCD TVs, so as to display 3D video content. There's a big debate around 3D TVs right now. You have manufacturers bringing out 3D TVs left, right and centre.



Sony KDL-46EX720

Barring a few 3D movies, there isn't much original 3D content around for you to completely enjoy the experience. Only if you're into 3D gaming, then they makes sense. The active shutter glasses are expensive and using them for long duration leads to headaches or dizziness among some viewers. LG is the only brand which has passive 3D glasses.

Sony, LG and Samsung offer a good 3D experience, but like we said there's lack of original 3D content. Sony KDL-46EX720 makes for a good buy at ₹94,000 offering 3D and smart TV features such as internet video, Facebook and Twitter. If you just want a 3D TV with passive glasses then the LG 42LW4500 at ₹80,000 makes for a good choice.

### Gaming rig within 50k

I want to build a gaming rig with a ₹50,000 budget. Please don't include the cost of monitor, keyboard, mouse, speaker and Windows.

Rahul Kukrety

Opt for this configuration:

- **Processor:** Intel Core i5-2400 (₹11,100)
- **Motherboard:** MSI H67 MAE35 (₹4,850)
- **RAM:** Gskill F3-10600CL9S-4GBNT (₹1,200)
- **HDD:** Seagate 500 GB 7200.12 (₹4,300)
- **Graphics Card:** ASUS GTX 560 (₹10,800) or EVGA GeForce GTX 560 Ti Superclocked (₹15,300)
- **PSU:** Corsair GS 600 (₹4,000)
- **Total:** ₹36,250 (with GTX 560) and ₹40,750 (with GTX 560Ti)

### LED TV with DLNA

I want to buy a 32-inch LED TV (LG/Samsung). I have a smartphone with DLNA feature so my budget is around ₹35k. The three main criteria are:

- Full HD support
- DLNA certification
- HDMI ports

Srikanth MV

LED backlit LCD TVs will be difficult with your budget. We suggest checking out these LCD TVs which fulfill your requirements: Samsung LA32D580K4R (₹36,000) and Samsung LA32D550K1R (₹35,000). Among LG TVs for your budget, you'll get LCD TVs, but they don't feature DLNA.



EVGA GeForce GTX 560 Ti

### IT shopping in Nepal

I live in Nepal and there are very few options available for IT products. I have two requests. Firstly, I want a graphics card for playing latest games such as *Battlefield 3*, *COD*, *GTA* etc.

My PC configuration is as follows:

- **Processor:** Intel Core I3-540 @ 3.06 GHZ
- **RAM:** 4 GB (3.64 usable in 64-bit ultimate Win 7 – suggest to improve this)
- **Motherboard:** Gigabyte H55M-S2V

My budget is only ₹7,000-8,000. Also note that besides products not being available here, the prices are also higher; for example, GTX 550ti costs ₹11,500. Also, only PSUs of Goldkist and Jdkee are available. So which would be a better option? Both cost roughly ₹1,500. Can they run the suggested GPU along with my PC decently?

Secondly, I need a phone that costs roughly ₹9,000. The prices are nearly of the same level and also not many phones are available. I want a responsive touch-screen, and Android is preferable.

Jatin Rungta



HTC Explorer

For the graphics card, you can go for HD 6750 which is available for around ₹7,000 in India. If you can stretch your budget, you can also get the latest MSI R7750-PMD1GD5/OC which is available for around ₹7,500. As for the power supply, anything over 400W is good for your system. The Corsair VS 450, for instance, costs around ₹2,100. But check with the local dealers in Nepal regarding brand availability and pricing. You might have to increase your budget if you want a proper branded PSU.

At around ₹9,000, we feel that the HTC Explorer and Samsung Galaxy Y S5360 make for decent buys. Both these phones sport Android 2.3, 2MP (Samsung) w and 3MP (HTC) cameras, 3-inch (Samsung) and 3.2-inch (HTC) screen size, respectively.



# digit KILLER RIGS

Everything you'll ever need to build your own PC. Whatever your budget.

■ Basic rig = ₹21,365 ■ HTPC = ₹23,077 ■ Entry-level gaming = ₹36,365 ■ Mid-range gaming = ₹56,900 ■ Ultra high-end = ₹1,63,299

## BASIC RIG

Processor	AMD Athlon 2 x2 260	3,300
Motherboard	GIGABYTE GA-MA78LMT-S2	2,600
RAM	Corsair Desktop RAM 2GB DDR3 1333MHz	700
HDD	Seagate 500GB 7200.12	4,450
Monitor	BenQ G610HDAL	3,900
Graphics Card	None	0
Cabinet	Cooler Master Elite 310	1,800
PSU	FSP Saga II 400W	2,000
Speaker (2.1)	Altec Classic Audio BXR1221	1,200
Mouse	Zebtronics Judwaa 5 (Bundle)	0
Optical Drive	LG 22x SATA DVD Writer	950
Keyboard	Zebtronics Judwaa 5 (Bundle)	465
Sound Card	None	0
<b>Total</b>		<b>21,365</b>

## HTPC

Processor	Bundled	0
Motherboard	MSI E350IA-E45	8,200
RAM	Corsair 2GB DDR3 1333MHz	700
HDD	Seagate Barracuda 2 TB	8,700
Monitor	None (your TV)	0
Graphics Card	None (HD6310 onboard)	0
Cabinet	iBall Elegance	1,777
PSU	Bundled (250W)	0
Speaker	None	0
Mouse	MS Wireless laser Combo XVA-00020	2,750
Keyboard	Bundled	0
Optical Drive	LG 22x SATA DVD Writer	950
Sound Card	None	0
<b>Total</b>		<b>23,077</b>

## ENTRY-LEVEL GAMING

Processor	AMD Phenom II x4 840	5,500
Motherboard	GIGABYTE GA-MA78LMT-S2	2,700
RAM	G-skill F3-10600CL9S-4GBNT	1,200
HDD	Seagate 500GB 7200.12	4,450
Monitor	BenQ G2222HD	7,000
Graphics Card	Asus 550Ti	8,000
Cabinet	Cooler Master Elite 310	1,800
PSU	Corsair CX430	2,400
Speaker	Altec Lansing V2621	1,900
Mouse	Zebtronics Judwaa 5 (Bundle)	0
Optical Drive	LG 22x SATA DVD Writer	950
Keyboard	Zebtronics Judwaa 5 (Bundle)	465
Sound Card	None	0
<b>Total</b>		<b>36,365</b>

## MID-RANGE GAMING

Processor	Intel Core i5-2500	11,500
Motherboard	MSI-H67 MA-E35	4,850
RAM	G-skill F3-10600CL9S-4GBNT	1,200
HDD	Seagate 500GB 7200.12	4,450
Monitor	Samsung P2350	10,800
Graphics Card	Radeon HD 6870	12,000
Cabinet	Cooler Master Elite 430	2,700
PSU	Corsair GS 600	4,300
Speaker	Altec Lansing V2621	1,900
Mouse	Razer Abyssus (bundled)	0
Optical Drive	LG 22x SATA DVD Writer	950
Keyboard	Razer Cyclosa (Bundled)	2,250
Sound Card	None	0
<b>Total</b>		<b>56,900</b>

## ULTRA HIGH-END GAMING

Processor	Intel Core i7-2600K	17,500
Motherboard	ASRock Extreme 7 Gen3	18,999
RAM	Gskill F3-12800CL9D-8GBXL	3,100
HDD	2x Seagate 1 TB + Kingston 64 GB SSD	16,800
Monitor	BenQ XL2410T	26,000
Graphics Card	ASUS AMD Radeon HD7970	35,500
Cabinet	Cooler Master HAF922	7,500
PSU	Seasonic X850 (80+ Gold)	10,000
Speaker	Logitech Z506	6,700
Mouse	Logitech G9x	5,000
Optical Drive	LG 12x Blu-ray OEM RW	6,500
Keyboard	Logitech G510	5,000
Sound Card	ASUS Xonar DX 7.1	4,700
<b>Total</b>		<b>1,63,299</b>

## OPTIONAL ACCESSORIES

Speakers (5.1)	Logitech Z5500	18,500
Controller	Xbox360 Controller (wired)	1,350
Controller	Logitech G25 Racing Wheel	17,000
Webcam	Microsoft LifeCam HD	2,000
Headset	Creative Tactic Sigma	4,000
System Fans	Noctua NF-P12-1300 120mm Case Fan	1,000
System Fans	Noctua NF-P14 FLX 140mm Case Fan	1,200
Sound Card	ASUS Xonar Essence STX	7,500
USB Hub	Belkin 7 port USB HUB	1,000
Wireless router	Linksys WRT120N	1,550
CPU Cooler	Noctua NH-D14	5,250
CPU Cooler	Cooler Master Hyper TX3	1,500
Thermal Paste	Arctic Cooling MX2	500



### Win8 on iPad?

Splashtop Win8 Metro Testbed app for iPad allows users to experience Windows 8 with full touch functionality <http://dgit.in/Inqymo>



### WP apps

Windows Phone apps are now only available via the Zune web site and not via the Zune software

# SPEND SMART

Updated prices of top mobile phones and tablets



## ULTRABOOKS

Name	Processor	RAM (MB)	Storage	Graphics	Screen Size/Resolution	Weight (Kg)	Price (₹)
Lenovo Ideapad U300s	1.6 GHz Intel Core i5	4GB DDR3	128 SSD	Intel Integrated HD 3000	13.3/1366×768	1.33	67,990
Dell XPS 13	2 GHz Intel Core i5	4GB DDR3	128 SSD	Intel Integrated HD 3000	13.3/1366×768	1.35	79,900
Asus Zenbook UX31E	1.7 GHz Intel Core i7	4GB DDR3	256GB SSD	Intel Integrated HD 3000	13.3/1600×900	1.3	89,999
Samsung Series 5 Ultrabook	1.6 GHz Intel Core i5	4GB DDR3	500GB hard drive with 16GB express cache	Intel Integrated HD 3000	13.3/1366×768	1.8	48,990
HP Folio 13	1.6 GHz Intel Core i5	4GB DDR3	128 GB SSD	Intel Integrated HD 3000	13.3/1366×768	1.45	69,990
Apple MacBook Air	1.7 GHz Intel Core i5	4GB DDR3	256 GB SSD	Intel Integrated HD 3000	13.3/1440×900	1.8	89,900
Toshiba Portege Z830	1.8 GHz Intel Core i7	6GB DDR3	128 GB SSD	Intel Integrated HD 3000	13.3/1366×768	1.2	96,290
Acer Aspire S3	1.6 GHz Intel Core i5	4GB DDR3	20GB SSD + 320 GB HDD	Intel Integrated HD 3000	13.3/1366×768	1.38	49,990



## COMPACT CAMERAS

Name	Optical Zoom	Image Stabilisation (Y/N)	Video Resolution	LCD Screen Size (Inches)	Resolution (Megapixel)	Price (₹)
Sony Cyber-shot DSC-H90	16x	Y	1280 x 720	3	16.1	13,990
Sony Cyber-shot DSC-TX55	5x	Y	1920 x 1080	3.3	16.2	19,990
Olympus SZ-31MR iHS	24x	Y	1920 x 1080	3	16	24,445
Canon Digital IXUS 510 HS	12x	Y	1280 x 720	3.2	10.1	22,995
Canon PowerShot A810	5x	N	1280 x 720	2.7	16	5,995
Canon PowerShot SX150IS	12x	Y	1280 x 720	3	14.1	9,995
Canon PowerShot A4000 IS	8x	Y	1280 x 720	3	16	11,995
Canon PowerShot SX260 HS	20x	Y	1280 x 720	3	12.1	22,995
Canon PowerShot SX40HS	35x	Y	1920 x 1080	2.7	12.1	28,995
Canon PowerShot G1X	4x	Y	1920 x 1080	3	14.3	47,995
Olympus VG-160	5x	Y	1280 x 720	3	14	7,490
Olympus VR-350	10x	Y	1280 x 720	3	16	10,990
Olympus SH-25MR	12.5x	Y	1920 x 1080	3	16	21,990
Olympus SZ-31MR	24x	Y	1920 x 1080	3	16	25,990
Nikon Coolpix L25	5x	N	640 x 480	3	10.1	4,990
Nikon Coolpix S3300	6x	Y	1280 x 720	2.7	16	7,950
Nikon Coolpix S9300	18x	Y	1920 x 1080	3	16	18,950
Nikon Coolpix L810	26x	Y	1280 x 720	3	16.1	15,450
Nikon Coolpix P310	4.2x	Y	1920 x 1080	3	16.1	16,950
Nikon Coolpix P510	42x	Y	1920 x 1080	3	16.1	23,950
Panasonic Lumix DMC-TZ30	20x	Y	1920 x 1080	3	14.1	19,990
Sony Cyber-shot DSC-WX50/L	5x	Y	1920 x 1080	2.7	16.2	11,990
Panasonic Lumix DMC-TZ18	24x	Y	1920 x 1080	3	12	22,999
Kodak EasyShare Z990	30x	Y	1920 x 1080	3	12	20,000
Kodak EasyShare Z950	10x	Y	1280 x 720	3	12	9,360
Kodak EasyShare M590	5x	Y	1280 x 720	2.7	14	7,000
Fujifilm FinePix S4200	24x	Y	1280 x 720	3	14	12,000
Fujifilm FinePix JZ100	8x	Y	1280 x 720	2.7	14	7290

# Reddit cultures

The vast wilderness of Reddit is a breeding ground for a diverse range of cultures; from healthy self-improvement to absurd darkness that can rival the likes of /b. Of course we can't really tell you about the bad stuff without flirting with serious trouble, so here are three cultures that are clean and fun... mostly

## IAMA

Famous personalities or people engaged in interesting professions come on this platform to do a bare-all question answer session with the reddit community. So one day it's a bouncer from a famous nightclub, the next it's a US navy officer who's served on board an indian vessel, and the next it's Woody Harrelson (which admittedly did not go so well).



## Project Enrichment

Remember how Tyler Durden gave his fight club cronies weekly tasks to do? This is something like that except these tasks are not badass, but rather towards self improvement. Every week the reddit community posts challenges such as Wake up one hour earlier to Go a week without visiting time wasting sites. You follow them scrupulously and better your life!



## Earth Porn

As opposed to what, tentacle porn? Relax, don't get jumpy guys, it's simply a section on reddit where the most beautiful pictures of nature are put up for the community's viewing pleasure. Expect to find sprawling landscapes, endless mountain ranges, lakes, rivers and everything in between.



## How we unwind



### The Piano Guys

These guys create musical magic often with just a cello and a piano. They've covered artists such as Adele, Coldplay and classical masters like Bach and Mozart. Their videos are shot in breathtaking locales and each song has a story to tell.

### Hunger Games

This month we all went for hunger games and came out quite exhilarated. Yes, a society that can create creatures out of thin air probably doesn't need mining towns but hey the premise of a fight to the death is always fascinating.



### Neil deGrasse Tyson

He is what one would call the most badass scientist that ever lived. Don't get it? Know that "we've got a badass here" rage character. Yea that's him and we've been lapping up his scientific videos this whole month.



# SUBSCRIBE AND FLAUNT

Subscribe to Cricket Today and be a part of a special bumper prize – an exclusive miniature bat personally autographed by the champion.

Select your choice of any one cricketer who's Bat you would like to win in the bumper draw

Virat Kohli ■ Robin Uthappa ■ Yusuf Pathan ■ Virender Sehwag ■  
Rohit Sharma ■ Gautam Gambhir ■ Irfan Pathan ■

7 lucky winners  
to be chosen from  
bumper draw.  
1 winner for  
each bat.



7 Lucky winners stand a chance to win an Exclusive Bat, each personally autographed by their choice of Batsman

## 1 Year Subscription

**30% OFF + Chance to win an exclusive autographed miniature bat**

Cover Price: Rs. 600/-  
You Pay: Rs. 420/-

## 2 Year Subscription

**40% OFF + Chance to win an exclusive autographed miniature bat**

Cover Price: Rs. 1200/-  
You Pay: Rs. 720/-

## 3 Year Subscription

**50% OFF + Chance to win an exclusive autographed miniature bat**

Cover Price: Rs. 1800/-  
You Pay: Rs. 900/-

Name : Mr./Ms ..... Date of Birth / /

Address.....

.....PIN

Occupation.....

Ph:.....Email.....

Please find enclosed ( ) Cheque/DD No..... Dated.....

for ₹ 420 ☐ ₹ 720 ☐ ₹ 900 ☐ favouring **Diamond Magazines Pvt. Ltd.**

Date..... Signature.....

Please fill in this order form and send it to:

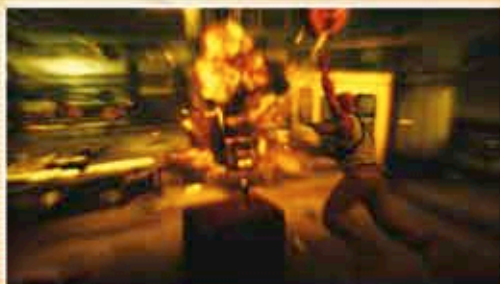
Prize may vary from the one shown above.

Diamond Magazines Pvt. Ltd, X-30 Okhla Industrial Area, Phase-II, New Delhi-110020

Phone: 40712100, Fax: 41611866, Email: sales@dpb.in



SKOAR!



# MAX IS BACK!

Jayesh Shinde  
feedback@skoar.com

**A**fter eight years of agony, one of the most eagerly awaited games in recent times is just around the corner. Yes, Rockstar Games will finally launch Max Payne 3 next month. To commemorate the occasion, we take a closer look at some of the great things Max Payne 3 will introduce in the franchise, features that no doubt will be huge hits among Max Payne fans.

## New engine

Max Payne 3 features cutting-edge advances to animation thanks to a new iteration to the game's RAGE engine. And with a close integration with Natural Motion's character behaviour system, thousands of animations work together to give any scene in Max Payne a realistic momentum and feel.

## Upping the ante

The original game was at the forefront of technology back when it released, and Rockstar Games is only pushing the envelope of Max Payne 3's game features to make it relevant in 2012. Using brand new editing techniques, Max Payne 3 aims to blur the lines between cutscenes and gameplay, enabling seamless transition from one level to another with minimal load times.

## Bullet time on steroids

A huge staple of Max Payne's legacy is Bullet Time. In Max Payne 3, Rockstar Games reveals that Bullet Time isn't just an important gameplay mechanic but the core approach to how the game is played, affecting pretty much everything in the game – from physics and animation to destructibility and particle effects.

Some upgrades to Bullet Time include Environmental Bullet Time, which showcases at least one epic scene per

level where Max performs incredibly stylish kills while using his surroundings to the fullest. Bullet cams of the original game are now Final Kill cams, which indicates the end of the last enemy in a wave or level. Players can speed up or slow down the velocity of each bullet in Final Kill cams, making for a true cinematic experience in Max Payne 3.

"These days, many games include some superficial form of slow-motion gameplay as one feature among many to mark off a checklist," says Jeronimo Barrera, VP Development, Rockstar Games. "But in the Max Payne series, bullet time is a core element of gameplay, both strategically and aesthetically," he adds.

## Can't barely wait?

From all indications, Max Payne 3 looks like it's going to be awesome, with Bullet Time playing an integral role in the game. We can't wait for May 15 to come soon enough – meanwhile check this month's DVD for a whole host of Max Payne 3 trailers, screenshots and wallpapers. It's going to be epic! ✨





# GHOST IN THE SHELL

Jayesh Shinde  
feedback@skoar.com

A new tactical shooter's about to launch later this month, just on the back of Max Payne 3, and the two games couldn't be more different. While one is a long-awaited refresh of a franchise with huge fan following, the other's a tactical military game called Tom Clancy's Ghost Recon: Future Soldier. Are you ready to fight in the battlefields of tomorrow?

## Weapons galore

A huge draw in Tom Clancy's Ghost Recon: Future Soldier is the extraordi-

nary array of guns and artillery at your disposal. It's mind-boggling! The developers credit this feature to a key insight they learned from special forces and military consultants – according to them, Special Ops tweak and customize their guns and loadouts almost always before specific missions. And the game empowers to give players the choice to customize their weapon according to their choice before a mission begins, through GunSmith. From early prototypes to wicked upgrades, rest assured, your character has a lot to choose from when you take the stage on Future Soldier.

## Gameplay

Tom Clancy's Ghost Recon: Future Soldier features an exciting single-player campaign that can be played with three additional friends in a co-op mode. The game is a third-person shooter precisely for this reason, so you could better communicate and collaborate in a multiplayer setting to hoodwink AI teams or other human teams.

The game features the ability to tag enemies and execute a kill – either by yourself or ordering a comrade. Cover mechanics deployed in Ghost Recon: Future Soldier appear to be fast, snappy and largely precise – whether you're battling enemies in a crowded street or stalking an unsuspecting guerilla leader. If you're struck by enemy fire,



Future Soldier's realistic physics leads to shaky cams thereby making it difficult for you to successfully fire at your enemy – the solution is almost always sending a squadmate to take care of the situation. This scenario itself gives a good insight into Ghost Recon: Future Soldier's clever balancing act between tactical gameplay and precision shooting.

"Being a third person shooter allows us to put the player in the heart of the action, and let the player live and breathe the special forces fantasy, while also creating a connection with the story," according to Adrian Lacey, IP Development Director, Ghost Recon Future Soldier. He further adds, "We wanted to make sure the player felt like they were playing as part of an elite unit of operatives and be one of those precision shooters. But we add a twist, and give them the tools to prepare and surprise the enemy with that violence of action that only a Ghost Unit can take to the battlefield of tomorrow!"

After a delay of couple of months, Ubisoft's Ghost Recon: Future Soldier is giving all the hints of being a game that you simply don't want to miss. The game releases on May 25. ✨







# TERMINATOR ON STEROIDS?

Sameer "Psycho Mantis" Mitha  
feedback@skoar.com

**T**he storyline revolves around humanoid robots called "Hollow Child", which think that they're in fact human (more like grown up versions of Haley Joel Osment's character in AI). When disaster strikes, you, the lead protagonist, Dan Marshall are called upon to save the day along with your squad.

Put simply, this is a third person cover based shooter where you'll progress from point A to point B taking down anything that comes in your way with little scope for deviation. There aren't any real puzzles thrown in to vary the pacing apart from the "pull this lever to go there" scenario.

In terms of gunplay, you'll encounter a plethora of robotic enemies on your way. The enemies are varied in the amount of ammo it takes to take them down. Like most third person shooters these days, Dan carries four weapons: a pistol, two rifles and grenades.

The robotic enemies are a welcome relief from the regular band of soldiers and aliens we've grown accustomed to. Metal flying off robots as you shoot them is a cool effect. You can shoot off their legs or take on that clean headshot, and watch the

robot become a menace to his comrades. The occasional boss battles are anything but satisfying; they can be tedious and frustrating. If you thought games like Deus Ex and Ninja Gaiden required patience with boss battles, you haven't played Binary Domain yet!

The game brings a new element to the third person team-based shooting genre – the ability to issue voice commands to your comrades via a microphone. Or you can hold down "L2".

With comrades always by your side, there's a trust meter that builds up. You can choose to say the right thing and increase it or engage in friendly fire and decrease it.

The graphics aren't the best in its genre but they aren't bad either. The sceneries and environments you visit will give you a glimpse of future Tokyo – a tech-savvy city with some underground resistance thrown into the mix.

The only place where Binary Domain suffers is in its audio production. Hardly any background score for the most part, which is a good thing as the unadulterated sound of bullets tearing through metal and alloy is a lot more satisfying to hear.

So what ruins the game experience? All these effects are washed

down the drain when the cheesy voice acting kicks in. It's hard to relate to any of the characters, the cut scenes are downright silly and there isn't enough substance to keep you hooked. \*

## Verdict

The satisfying feeling of shooting the scrap out of robots comes to an end when the cut scenes and cheesy voiceovers come into play. If you're in the market to pick up a third person shooter, compare the Gears of War trilogy, Vanquish or the Uncharted franchise with Binary Domain before making your purchase decision.

## MOAR!

- » **Developer:** Sega Team CS1
- » **Publisher:** Sega
- » **Genre:** Third Person Shooter
- » **Platforms:** PS3 and Xbox 360
- » **Price:** ₹2,799 (MRP)



SKOAR!



Sameer "Psycho Mantis" Mitha  
feedback@skoar.com

# THE DOWNFALL OF AN AWESOME FRANCHISE!

## RESIDENT EVIL Operation Raccoon City

**R**esident Evil: Operation Raccoon City continues in the universe of Resident Evil 2 and 3. Naturally, the expectations from the game are high. Add to the mix the element of team-based shooting and we have a game that could give the likes of Left for Dead a run for their money. So where did it go wrong? Read on.

The story takes place during the initial virus epidemic in Raccoon City. You join the ranks of the Umbrella Security Service (USS) with the objective of destroying all evidence of the company's involvement in the outbreak.

The story could've been really interesting had there been relatable characters and a little back-story. In the offline single player version, you don the role of a faceless player and hence, it's hard to derive any form of attachment to the characters. The progression is random and will leave new comers in the dark.

All things said and done, a bad game can still be rescued by its gameplay elements. Unfortunately, the gameplay in *Raccoon City* is appalling. We recommend playing the game with friends online (There are twelve playable characters in the game, with six characters for each side), as the offline AI comrades are downright useless. We were surprised when one of these comrades deployed a heeling grenade at the right time for once.

The game is essentially a third person shooter where you progress from point A to point B killing everything that comes in your way. It sounds like a nice progression mix when you're reminded that the enemies vary between zombies and soldiers but the experience is nothing but sheer frustration.

It's satisfying to take out a zombie with one headshot, but the rest of the shooting mechanics feel uneven. In your arsenal, you have the option of a handgun, an assault rifle and a bunch of grenades.

To take cover in the game, all you need to do is go close to any object and your character will take cover automatically. This system takes a little time to get used to, as it's simpler to press a button to get in and out of cover.

There are the occasional set piece moments, which are generally the high point of third person shooters and provide a break from the monotony. The set piece moments in *Raccoon City* are lackluster when compared to the likes of *Gears of War*.

The highlight of any Resident Evil game has always been the infected zombies and their reactions. In *Raccoon City*, their presence doesn't go beyond the tried and tested formula. The game should take some serious inspiration from games such as *Dead Space 2*.

The environments don't showcase anything worth boasting about also. You're either in a corridor of some building or in an open courtyard. There

are no moments where you'd want to stop to take a look at the environment.

The faces of the characters you don too are covered and don't provide any relatable emotions. There's nothing to get you attached to your character apart from a nickname and character class. ★

### Verdict

*Resident Evil: Operation Raccoon City*, even if borrowed heavily from other games in the genre, could've been worthwhile. If you're in the market to scare your pants off, look at *Dead Space 2*, *Left For Dead* or even *Alan Wake*. TPS enthusiasts check out the *Uncharted* franchise, *Socom* and *Gears of War*. It's difficult to recommend this game even to a Resident Evil veteran.

### MOAR!

- » **Developer:** Slant Six Games
- » **Publisher:** Capcom
- » **Genre:** Third Person Shooter
- » **Platforms:** PC, PS3 and Xbox 360
- » **Price:** ₹2,999 (MRP)





**Arkham City Capitulates**

Arkham City's GOTY edition will launch on May 29 for Xbox 360 and PS3, with all previous, +1 extra DLC <http://digit.in/HZBIvM>

**Steam for Linux**

Development for steam for Linux is well underway and it should be out within months <http://digit.in/JpAZE4>

# Windows App Challenge Contest Winners!

At the dawn of the new year we announced the Windows App Challenge contest. The contest was simple – submit the maximum number of apps and you stand to win every month till the closure of the contest. So without further adeu here are the three winners



## CONSOLIDATED FEATURED WINNER JANUARY 2012

### ASHISH JAGINI

Ashish has submitted maximum number of Apps during the entire contest period. Here is what he has to say:

"WP7 is completely different from the other Mobile OS's and is really amazing, you will know it only once you try it. I would suggest developers to try it once to know how powerful it is."

## FEATURE WINNER FEBRUARY 2012

### SREENIVAASAN GAJAPATHY

Sreenivaasan was never interested in Mobile Application Development until he came to know about the Windows App Challenge contest.

"I Started with exploring the Phone platform, and the webcast from ThinkDigit also helped us to complete our apps. We learnt a lot with the initial failures , which helped us to plan for good apps in future."



## FEATURE WINNER MARCH 2012

### TARUN PATEL

Similarly Tarun too decided to try after he heard about the contest.

"WP7 is the fastest OS I have ever operated. The multitasking feature is outstanding. I have uploaded 14 APPS the downloads of which have crossed 10000+ mark. I would like to thank my parents who have always supported me and my beloved wife chhaya. I am also thankful to my friends who have backed me all this years."



TURN TO PAGE 2



## Monster Fisheye lens up for sale

Nikon's old and rare 6mm f/2.8 lens weighing in at 11.5 pounds and capable of shooting 220 degrees is up for sale at 100,000 GBP



## NextGen rockets

NASA is working on the new J2X rocket system to replace their ageing arsenal  
<http://dgit.in/JMUIRT>

Community

Head over to [www.thinkdigit.com/forum](http://www.thinkdigit.com/forum) for some of the best discussions, buying advice and user reviews. Of course, you'll meet like-minded (and not-so-like-minded) geeks, leading to some of the most constructive arguments you'll ever have.

Check out the thread below where our forum members are in deep discussion over some of the greater problems in life. Find this and other interesting debates in our fight club section. The gloves don't come off.

<p>28-03-2012, 07:47 PM</p> <p><b>abhidev</b> Wise Old Owl</p>  <p>Join Date: Sep 2009 Posts: 1,566</p>	<p>#91 (permalink)</p> <p><b>Re: Which life is better? Single or Married?</b></p> <p>single life helps you to avoid huge phone bills and empty pockets ☺</p> <p>Core 2 duo E4500 2.2GHz , ASUS P5GCMX , 3GB Transcend , Corsair VX 550w, MSI R5770 HAWK Edition 1GB, CM HAF-922, LG W2243T 21.5" LCD, I-Ball Baton</p>
<p>29-03-2012, 10:33 AM</p> <p><b>furious_gamer</b> Excessive happiness</p>  <p>Join Date: Jun 2008 Location: Bangalore Posts: 2,971</p>	<p>#92 (permalink)</p> <p><b>Re: Which life is better? Single or Married?</b></p> <p>^^ Not exactly, when i was single, i used to browse in my phone and talk to many friends to avoid thinking about my ex. Still the phone bills comes closer,.</p> <p>Pockets? Man, i started purchasing games only after the break-up, which costs me equal to what i spent before that.</p> <p>My First Android phone : Samsung Galaxy SL I9003 - Rooted &amp; Gingerbread XXXKQ <b>Updated</b> : superteekz_V2 ROM for XXXKQ.</p> <p>PS Request</p>

## Join interesting conversations like these on our Facebook page

**Rahul Jain** ▸ Digit  
2 April

I want 2 buy a smartphone within the price tag of 30000!  
So plz suggest me.....

Like · Comment

**Shaunak Kuncolienkar** Galaxy s2  
2 April at 20:45 · Like

**Rahul Jain** What about Sony Xperia S ?  
2 April at 21:07 · Like


**Pratik Anand** htc one x is up for preorder at flipkart.....go for dat..  
2 April at 21:23 · Like

**Shaunak Kuncolienkar** Samsung nexus ?  
2 April at 21:45 · Like

**Subhash Sharma** Bro just go for the One X, or if u wanna grab a better one then wait for the Galaxy S III.  
2 April at 22:43 · Like

**Rahul Jain** Looks wise One X is duly  
2 April at 22:59 · Like

**Abhishek Singh Rajput** I vl request u to wait fo sm tym coz there is an expc'd price cut in dual core smartphones on arrival of the QUAD CORE BEASTS...  
so u cn save upto 5k on dual cores bro...  
n my pick is the latest XPERIA S bst android v have in dual core segment..  
n i vl nt suggst u to go for quad cores coz dual cores lyk GALAXY S2 and XPERIA S my fav r pvrful enuf to handle any n evry aap n game available...  
3 April at 12:22 · Like



Net Protector

**NP AV**


AntiVirus

**Total PC Protection 2012**


**Total Internet Security**

- Cloud Protection
- Parental Control
- Privacy Control
- Anti-Malware
- OS FireWall

Protect Your Digital Life...!



Earn Points  
Earn Gifts



\*Conditions Apply

Call:  
(0) 9272707050  
(0) 9822882566  
Toll Free : 1800-209-5550  
sales@indiaantivirus.com  
Biz Secure Labs Pvt. Ltd.

Admin Console for LAN

Web secure

PC Optimizer

NP Remote Support

Laptop Tracker

# Side-effects of technology

Technology is invading our lives faster than we can handle it. This over-indulgence with technology is hurting us dearly. We list some medical ailments associated with technology overload, serious psychological and physiological changes affecting our well-being because of our over-indulgence and inability to control our exposure to technology. For your benefit, it's good to know about these common technology-related ailments to be on your guard against their onset.

**RSI:** Repetitive stress injury or RSI is like an umbrella term for all ailments originating due to excessive stress applied on a certain part of the body. The sustained pressure focused on the body part can temporarily impair a joint (which has soft tissues, bones, ligaments, muscles, etc.) and the nerves concentrated in that region. If preventive action (generally, a positive ergonomic lifestyle change) isn't taken, it only aggravates the injury further.

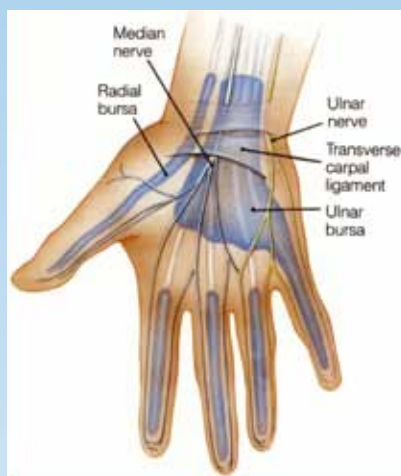
**Computer Vision Syndrome (CVS):** This is a temporary eye condition that occurs when you focus your vision on a computer (or



Computer

television) screen excessively for a very long time, without taking breaks or looking away. FPS gamers squinting hard to focus on their enemies, finance guys staring at exhaustive spreadsheets with millions of numbers, there are plenty of scenarios that can induce CVS. Symptoms include headaches, trouble re-focusing on other objects, blurred vision and drying of the eyes (because we forget to blink).

**Carpal tunnel syndrome:** Carpal tunnel syndrome is a form of RSI, where the median nerve responsible for detecting feel and sensation for part of our hand is unduly stressed due



Carpal

to incessant pressure. As the nerve enters your hand from the wrist, the gap through which it enters is narrow and continuous pressure on the wrist can inflame the median nerve. This is very common in people who type on their keyboards excessively without breaks, guitarists, people who hold the needle and sew a lot, and even painters.




Compulsive

**Compulsive Communicating:** You may deny it, but a constant urge to share on social networks, checking your email inbox incessantly, or your phone's notification window like your life depended on it has been medically certified as a serious side-effect of technology

addiction. The main culprit for this is your latest internet-connected smartphone, according to researchers in UK. American psychologists have gone as far as to say that our brain activity, monitored while subjects responded to their phone buzz, suggests we've started 'loving' our phones. We're completely hooked and it's totally unhealthy.

**Text neck:** Chiropractors in UK have warned the rise in number of people complaining about pain in their neck. Medical experts suggest they suffer from 'text neck', a side-effect of the increasing amount of time people spend hunched over their smartphone screens. If preventive measures aren't taken against 'text neck', it can invite permanent arthritic damage.

**Short-term memory loss:** Are you great at multitasking in this age of technology? Well, we have some not so great news to report, unfortunately. Being a multi-tasker can come at a price, one where you're severely reducing your short-term memory retention. Studies conducted in the US are linking extreme multitasking with the brain's ability to store and retain memory for posterity. Yikes! 



# Experience...

new style, new sound



*New Arrival*

(( ( 4000W PMPO )))



**F2200U**  
USB+MMC+Remote

**1**  
Year  
warranty

\*Conditions Apply

\*Branch Offices across 17 cities in India

Punjab: 9878579102, Haryana: 9354671983/9717498960, Delhi: 9717994659, Rajasthan: 8875255255, UP: 8303055553, Uttaranchal: 9560400399, Gujarat: 9924135958, Mumbai: 9323890797, Pune: 9762056991, Indore: 9826399803, Bhopal: 9826399803, Raipur: 9009777929, Bangalore: 9900576527, Hyderabad: 9000345780, Chennai: 9900576527, Kolkata: 9804841310, Ranchi: 8603707242, Patna: 9334489792, Orissa: 9437156011, Guwahati: 9435103968, Chandigarh: 9818788758, Himachal: 9818788758

WE CARE 😊

Toll Free No: 18004255546 E-MAIL: care@soyerelectronics.com URL: www.fendaindia.com

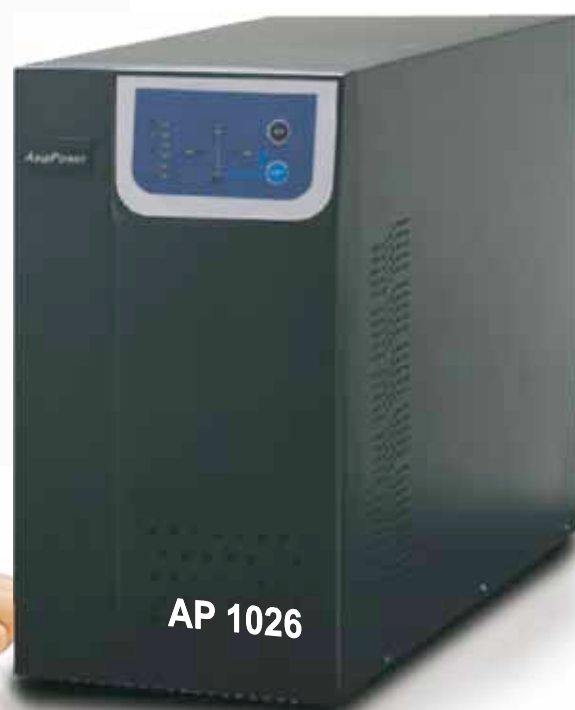
Follow us on: Fendaindia





**AsiaPower**  
keeping your technology alive

**Amazing  
power  
that ensures  
non-stop  
performance  
for hours\***



**AP 1026**  
**3+ hours backup\***

A powerful, long backup Built-In-Battery (BIB) UPS that can connect upto 4 PCs or a combination of PC, printer, router and monitor.

\* Depends on PC

**Asia Powercom Pvt. Ltd.**

401/402, Arya Arcade, Station Road, Vikhroli (W), Mumbai - 400 083.  
Tel.: 91-22-61772222. Email: [sales@asiapowercom.com](mailto:sales@asiapowercom.com) [www.asiapowercom.com](http://www.asiapowercom.com)  
Pan India Sales & Service available

# TOSHIBA

Leading Innovation >>>

## Toshiba Canvio 3.0

### Enjoy your personal Data



## External HDD

Now Available in Five Colors

- Raven Black
- Vivid White
- Rocket Red
- Liquid Blue
- Satin Silver

Available in 500GB / 1TB



**USB 3.0 HDD**



\*Laptop Internal HDD Available in 320GB / 500GB & 1TB.

Enterprise HDD are also Available.

RMA Toll Free No. : 1800 209 0303

\*Conditions Apply

Distributed in India by



**RASHI PERIPHERALS PVT. LTD.**

email: [response@rptechindia.com](mailto:response@rptechindia.com)  
website: [www.rptechindia.com](http://www.rptechindia.com)



**TRANSTEK INFOWAYS PVT. LTD.**

website: [www.ttek.in](http://www.ttek.in)

[www.kaspersky.co.in](http://www.kaspersky.co.in)

# KASPERSKY lab



**Here's a once-in-a-lifetime opportunity!**

**To meet Super Centurion Sachin Tendulkar, and what's more, play with him.**

Buy and activate a **Kaspersky Internet Security 2012** or **Kaspersky Anti Virus 2012** or **Kaspersky Pure** pack between **April 1** and **May 15, 2012**, and stand a chance to meet Sachin and play a virus-busting game with him in June.

Hurry and grab this offer to become the talk of the town.

For details and to register, visit **[www.sakri.in/meetsachin](http://www.sakri.in/meetsachin)**

\*Conditions apply.

\*Offer valid only on purchases from retail outlets.

 [www.facebook.com/kasperskyindia](http://www.facebook.com/kasperskyindia)

SMS **KAV** to **56263** to get ultimate PC protection